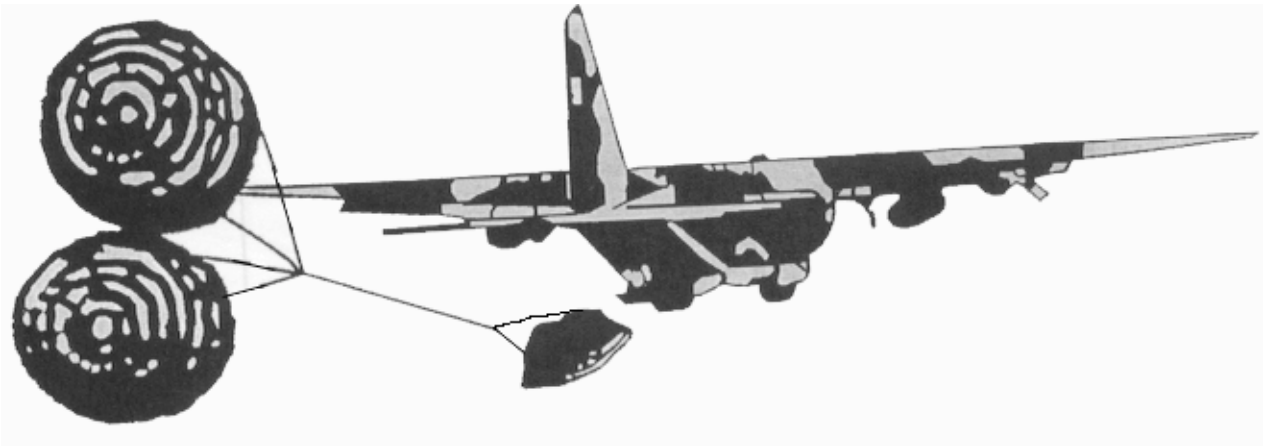
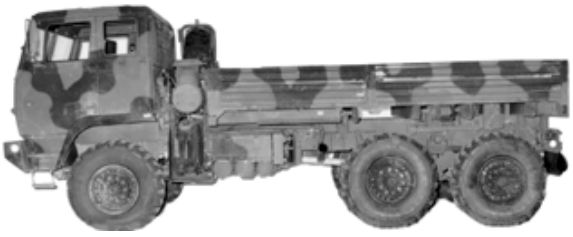
*ARMY FM 10-500-71
AIR FORCE TO 13C7-6-141



AIRDROP OF SUPPLIES AND EQUIPMENT:

RIGGING THE FAMILY OF MEDIUM TACTICAL VEHICLES (FMTV)



*This manual FM 10-500-71/TO 13C7-6-141, 1 December 1999 supersede FM 10-500-71/TO 13C7-6-141, 19 May 1997.

HEADQUARTERS
DEPARTMENT OF THE ARMY
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FIELD MANUAL
NO 10-500-71
TECHNICAL ORDER
NO. 13C7-6-141

HEADQUARTERS
DEPARTMENT OF THE ARMY
DEPARTMENT OF THE AIRFORCE
WASHINGTON, DC, 1 December 1999

AIRDROP OF SUPPLIES AND EQUIPMENT: RIGGING FAMILY OF MEDIUM TACTICAL VEHICLES (FMTV)

TABLE OF CONTENTS

*This manual FM 10-500-71/TO 13C7-6-141, 1 December 1999, supersedes FM 10-500-71/TO 13C7-6-141 (Interim), 20 October 1999; and FM 10-500-71/TO 13C7-6-141, 19 May 1997.

Section II. RIGGING M1081, 2 1/2-TON CARGO TRUCK WITH ACCOMPANYING LOAD

CHAPTER 3 RIGGING M1093 5-TON 6 x 6 STANDARD CARGO TRUCK ON A 28-FOOT TYPE V PLATFORM FOR LOW-VELOCITY AIRDROP

CHAPTER 1

INTRODUCTION

1-1. Scope

This manual tells and shows how to prepare and rig the following series of medium tactical vehicles for low-velocity airdrop from a C-130, C-141, C-5, and C-17 aircraft:

a. M1081, 2 1/2-ton cargo truck.
b. M1093, 5-ton 6 x 6 cargo truck.

1-2. Special Considerations

CAUTION: Only ammunition authorized by FM 10-500-53/TO 13C-18-41 may be airdropped.

a. The loads covered in this manual may include hazardous material as defined in AFJAM 24-204/TM 38-250.

b. A copy of this manual must be available to the joint airdrop inspectors during the before- and after-loading inspections.

1-3. Recommended Changes

The proponent of this publication is HQ TRADOC. You are encouraged to report any errors or omissions, and suggest ways for improving this manual.

Army personnel, send your comments on DA Form 2028 directly to:

AERIAL DELIVERY AND FIELD SERVICES
DEPARTMENT
US ARMY QUARTERMASTER CENTER AND SCHOOL
1010 SHOP ROAD
FORT LEE VA 23801-1502

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CHAPTER 2

RIGGING M1081, 2 1/2-TON CARGO TRUCK ON A 24-FOOT TYPE V PLATFORM FOR LOW-VELOCITY AIRDROP

Section I

RIGGING M1081, 2 1/2-TON CARGO TRUCK WITH BASIC LOAD

2-1. Description of Load

The M1081, 2 1/2-ton cargo truck *(Figure 2-1)* is rigged on a 24-foot, type V airdrop platform with five G-11 cargo parachutes.

The load consists of the M1081, 2 1/2-ton cargo truck and basic load. This load is 93 inches in height, 108 inches in width, 315 inches in length and has a rigged weight of 23,181 pounds.

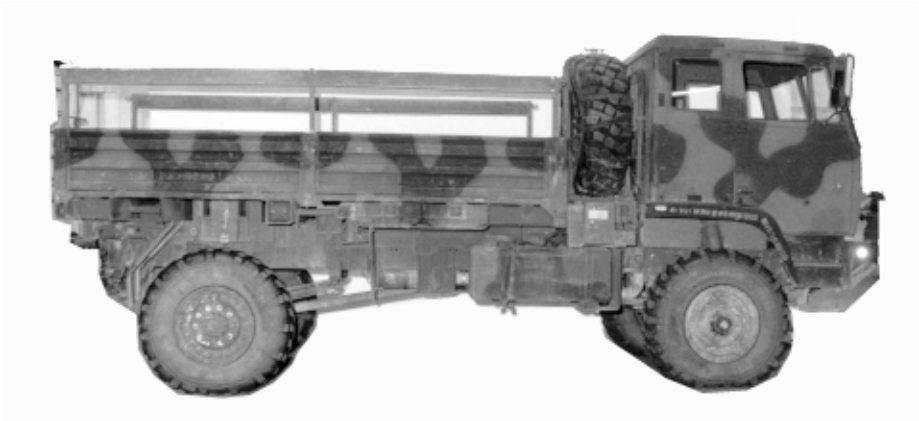
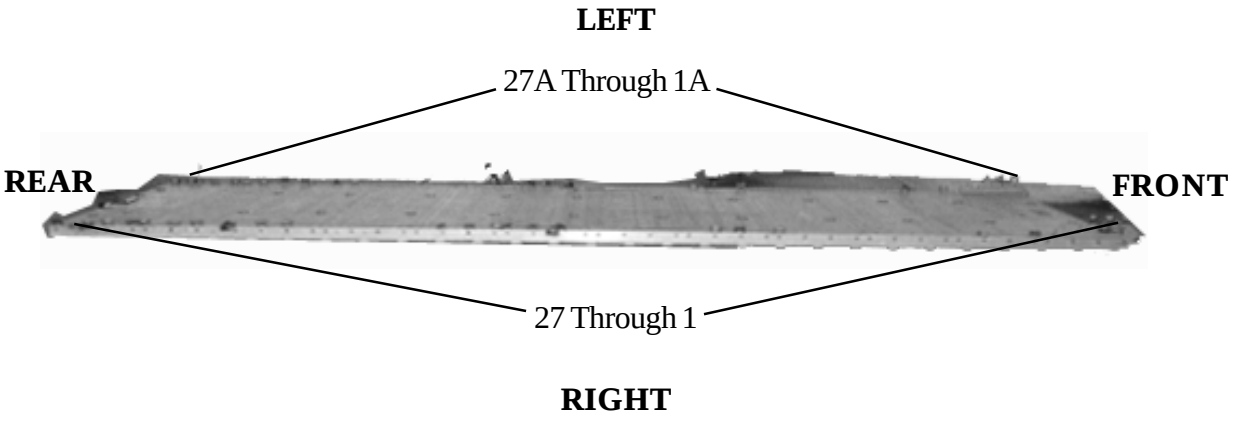


Figure 2-1. M1081, 2 1/2-ton cargo truck

2-2. Preparing Platform

Prepare a 24-foot, type V platform as shown in *Figure 2-2*.

NOTES: 1. The nose bumper may or may not be installed.
2. Measurements given in this section are from the front edge of the platform NOT from the front edge of the nose bumper.



Step:

1. Inspect, or assemble and inspect, a 24-foot, type V airdrop platform as outlined in TM 10-1670-268-20&P/ TO 13C7-52-22.
2. Install a tandem multi-purpose link to each platform side rail using holes 1, 2, and 3.
3. Attach clevises to each tandem link using bushings 1, 2, (tripled), and 3.
4. Starting at the front of each platform side rail, install clevises using bushings bolted to holes 5, 7, 16, 18, 19, 26 (doubled), 27, 28, 29, 30, 31, 39, 41 (doubled), 42, 43, 44, 45, 46, 47, (tripled), and 48.
5. Starting at the front of the platform, number the clevises 1 through 27 on the right side and 1A through 27A on the left side.

Figure 2-2. Platform prepared

2-3. Preparing Honeycomb Stacks

Use the material in *Table 2-1* to prepare 10 honeycomb stacks as shown in *Figures 2-3 through 2-10*.

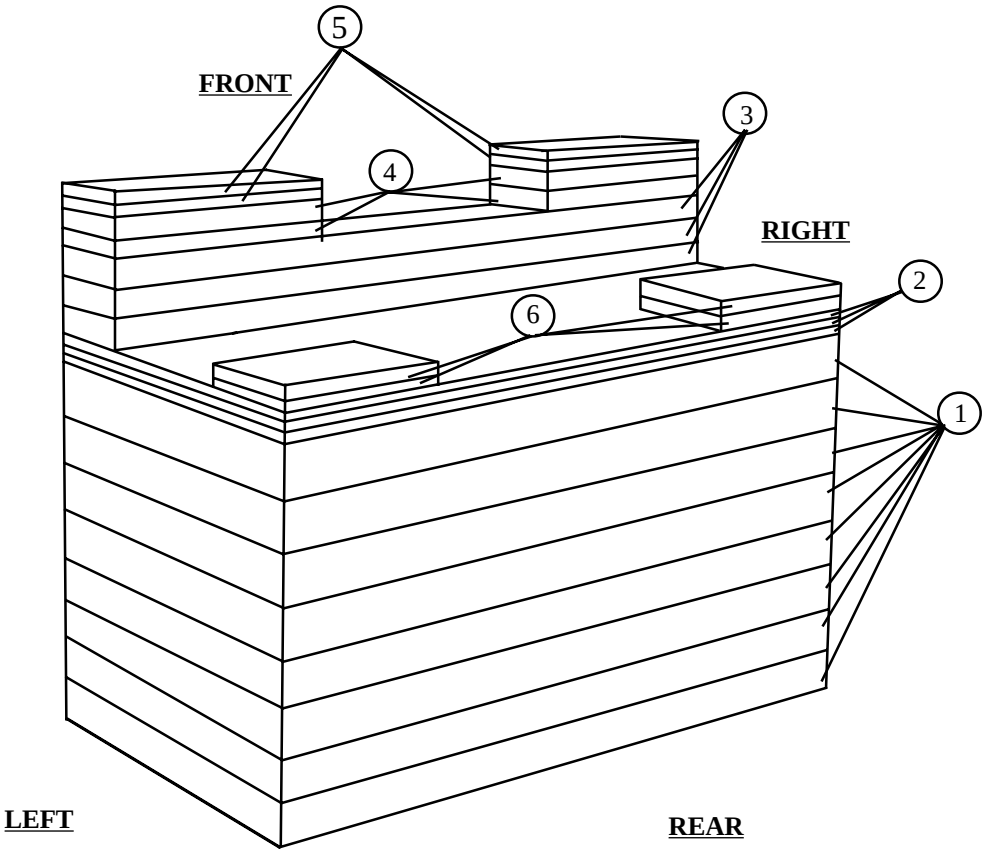
Table 2-1. Material needed to build honeycomb stacks.

Stack Number	Pieces	Width (Inches)	Length (Inches)	Material	Instructions
1	8	43	24	Honeycomb	See *Figure 2-3*.
	3	43	24	3/4-inch Plywood	
	3	2- by 8	43	Lumber	
	4	2- by 8	12	Lumber	
	4	12	7 1/2	3/4-inch Plywood	
	4	14	7	3/4-inch Plywood	
2	5	48	18	Honeycomb	See *Figure 2-4*.
	2	48	18	3/4-inch Plywood	
	2	2- by 6	18	Lumber	
	6	18	5 1/2	3/4-inch Plywood	
3	2	36	46	Honeycomb	See *Figure 2-5*.
	2	12	46	Honeycomb	
	12	18	46	Honeycomb	
	6	12	36	Honeycomb	
	4	48	46	3/4-inch Plywood	
	2	2- by 8	26 1/2	Lumber	
	1	7 1/2	26 1/2	1/2-inch Plywood	
	2	7 1/2	8	3/4-inch Plywood	
	1	8	16	3/4-inch Plywood	
	1	8	6	3/4-inch Plywood	
	1	10	10	3/4-inch Plywood	
	4	12	14	3/4-inch Plywood	
4	2	36	44	Honeycomb	See *Figure 2-6*.
	2	12	44	Honeycomb	
	12	18	44	Honeycomb	
	6	12	36	Honeycomb	
	3	48	44	3/4-inch Plywood	
	1	2- by 6	48	Lumber	
	2	2- by 12	34	Lumber	
	6	2- by 6	21	Lumber	
	6	2- by 12	12	Lumber	

Table 2-1. Material needed to build honeycomb stacks (continued).

Stack Number	Pieces	Width (Inches)	Length (Inches)	Material	Instructions
5	5 2 2 6	60 60 2- by 6 5 1/2	18 18 18 18	Honeycomb 3/4-inch Plywood Lumber 3/4-inch Plywood	See *Figure 2-7*.
6	8 3 4 6 3	48 48 2- by 6 2- by 6 2- by 6	18 18 45 8 33	Honeycomb 3/4-inch Plywood Lumber Lumber Lumber	See *Figure 2-8*.
7	1	18	96	Honeycomb	See *Figure 2-9*.
8	1	18	96	Honeycomb	See *Figure 2-9*.
9	1	18	74	Honeycomb	See *Figure 2-10*.
10	1	18	74	Honeycomb	See *Figure 2-10*.

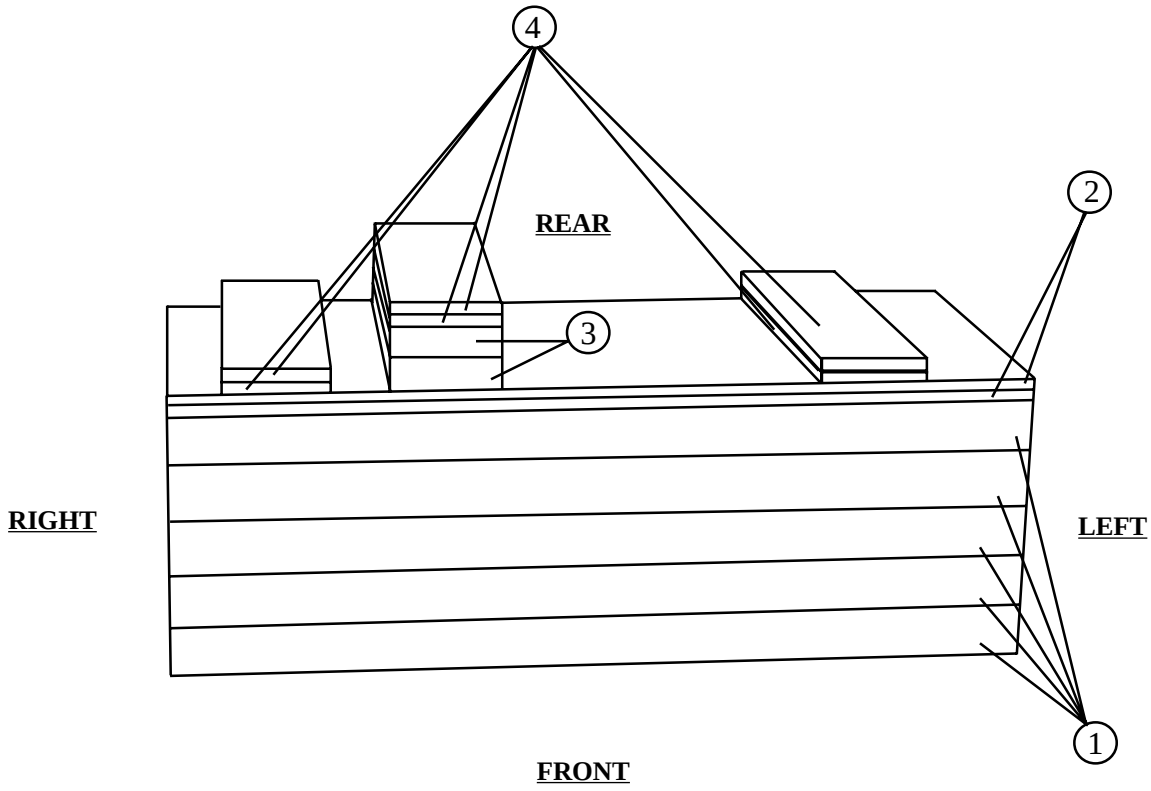
NOTE: On all stacks the plywood must be cut to fit lumber. EXAMPLE: An 11 1/2- by 24 inch piece of plywood sits on a 2- by 12- by 24-inch piece of lumber but hangs over a 1/2 inch on the 11 1/2 inch side. Cut it to 11 by 24 inches to insure it fits. This is not due to improper measurements but to the fact that lumber varies in true sizes.



STACK 1

1. Glue eight 43- by 24-inch pieces of honeycomb together to form a base.
2. Glue and nail three 43- by 24-inch pieces of 3/4-inch plywood together. Glue the plywood to the top of the base.
3. Glue and nail three 2- by 8- by 43-inch pieces of lumber together. Center and glue the lumber flush with the front of base.
4. Glue and nail two 2- by 8- by 12-inch pieces of lumber together. Repeat with remaining two pieces, forming two stacks. Glue and nail one stack to the right side, and the other stack to the left side of previous 2- by 8- by 43-inch piece of lumber.
5. Glue and nail two 12- by 7 1/2- by 3/4-inch pieces of plywood together. Repeat with remaining two pieces, forming two stacks. Glue and nail one stack to the right side, and the other stack to the left side of previous 2- by 8- by 12-inch piece of lumber.
6. Glue and nail two 14- by 7- by 3/4-inch pieces of plywood together. Repeat with remaining two pieces, forming two stacks. Glue one stack to the rear right side, and the other stack to the rear left side of base.

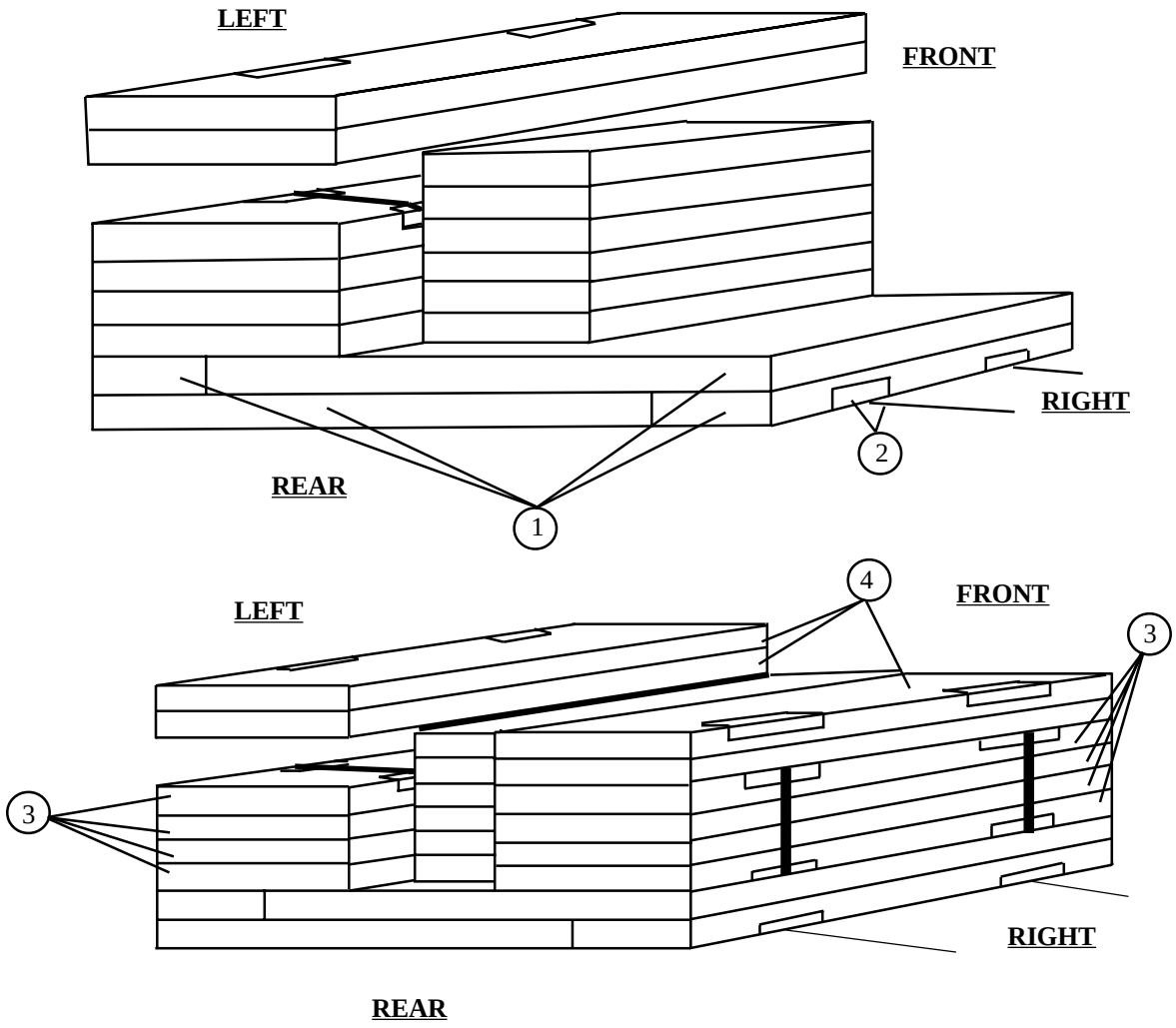
Figure 2-3. Stack 1 prepared



STACK 2

1. Glue five 18- by 48-inch pieces of honeycomb together to form base.
2. Glue and nail two 18- by 48-inch pieces of 3/4-inch plywood together. Glue to top of base.
3. Glue and nail two 2- by 18- by 48-inch pieces of lumber together. Glue and nail 13 inches from the right edge of the 18- by 48-inch pieces of plywood.
4. Glue and nail two 18- by 5 1/2-inch pieces of 3/4-inch plywood together. Repeat two more times with remaining four pieces, forming three stacks. Glue and nail one stack 3 inches from right edge of base. Glue and nail one stack on top of the 2- by 6- by 18-inch piece of lumber. Glue remaining stack 7 inches from the left side of base.

Figure 2-4. Stack 2 prepared



STACK 3

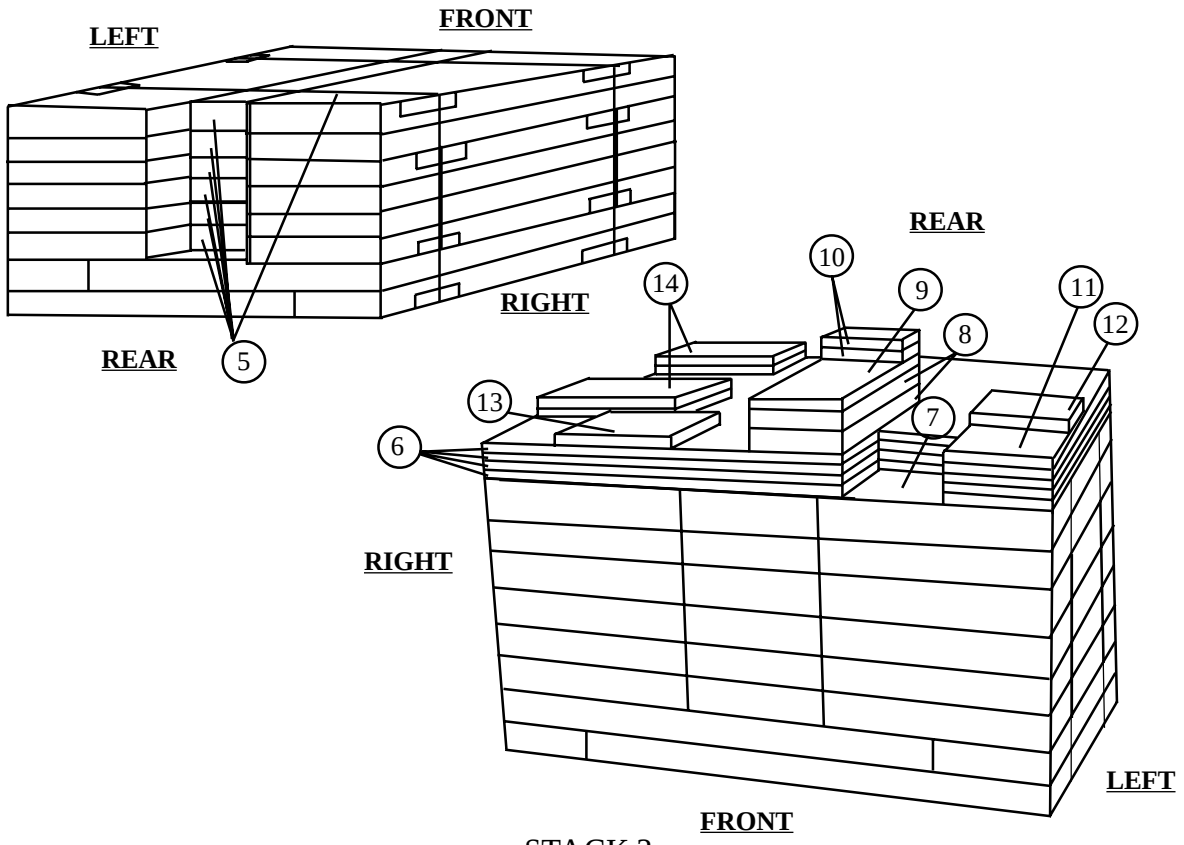
1. Position a 36- by 46-inch piece of honeycomb beside a 12- by 46-inch piece of honeycomb. Alternate and glue a 36- by 46-inch piece of honeycomb and a 12- by 46-inch piece of honeycomb on top of the pieces of honeycomb to form the base.

2. Place length of cloth backed tape on the bottom outer edges of the base. Position two 13-foot lengths of type III nylon cord under the base aligned with the strips of tape.

3. Form two stacks by gluing four 12- by 46-inch pieces of honeycomb together. Place length of tape on all edges. Run two lengths of 1/2-inch tubular nylon webbing over the strips of tape and around the stack. Secure and tie with a square knot on the outside of the stack. Place on the left and right sides of base **(Do NOT glue to base)**.

4. Form two stacks by gluing two 12- by 46-inch pieces of honeycomb together. Place length of cloth backed tape on the outer edges **(Do NOT glue to stacks).** Position one stack on each of the previous stacks.

Figure 2-5. Stack 3 prepared



STACK 3

(5) Glue six 12- by 36-inch pieces of honeycomb together to form a stack. Position between 18- by 46-inch stacks and flush with the front of base **(Do NOT glue to base).** Secure and tie the type III nylon cord around the completed honeycomb stack.

(6) Glue and nail four 48- by 46-inch pieces of 3/4-inch plywood together. **(Do not build lumber stack on honeycomb stack. The lumber will be placed on the stack later.)**

(7) Cut an 8-inch long, 12-inch deep cutout in the front of each of the 48-inch sides of plywood and 8 inches from the left 46 inch side of the plywood.

(8) Glue and nail two 2- by 8- by 26 1/2-inch pieces of lumber flush with front edge and right edge of cutout. Glue and nail each piece separately.

(9) Glue and nail a 7 1/2- by 26 1/2-inch piece of 1/2-inch plywood on top of the 2- by 8- by 26 1/2-inch piece of lumber.

(10) Glue and nail two 7 1/2- by 8-inch pieces of 3/4-inch plywood. Glue the plywood flush and to the rear of the 7 1/2- by 26 1/2-inch pieces of 1/2-inch plywood.

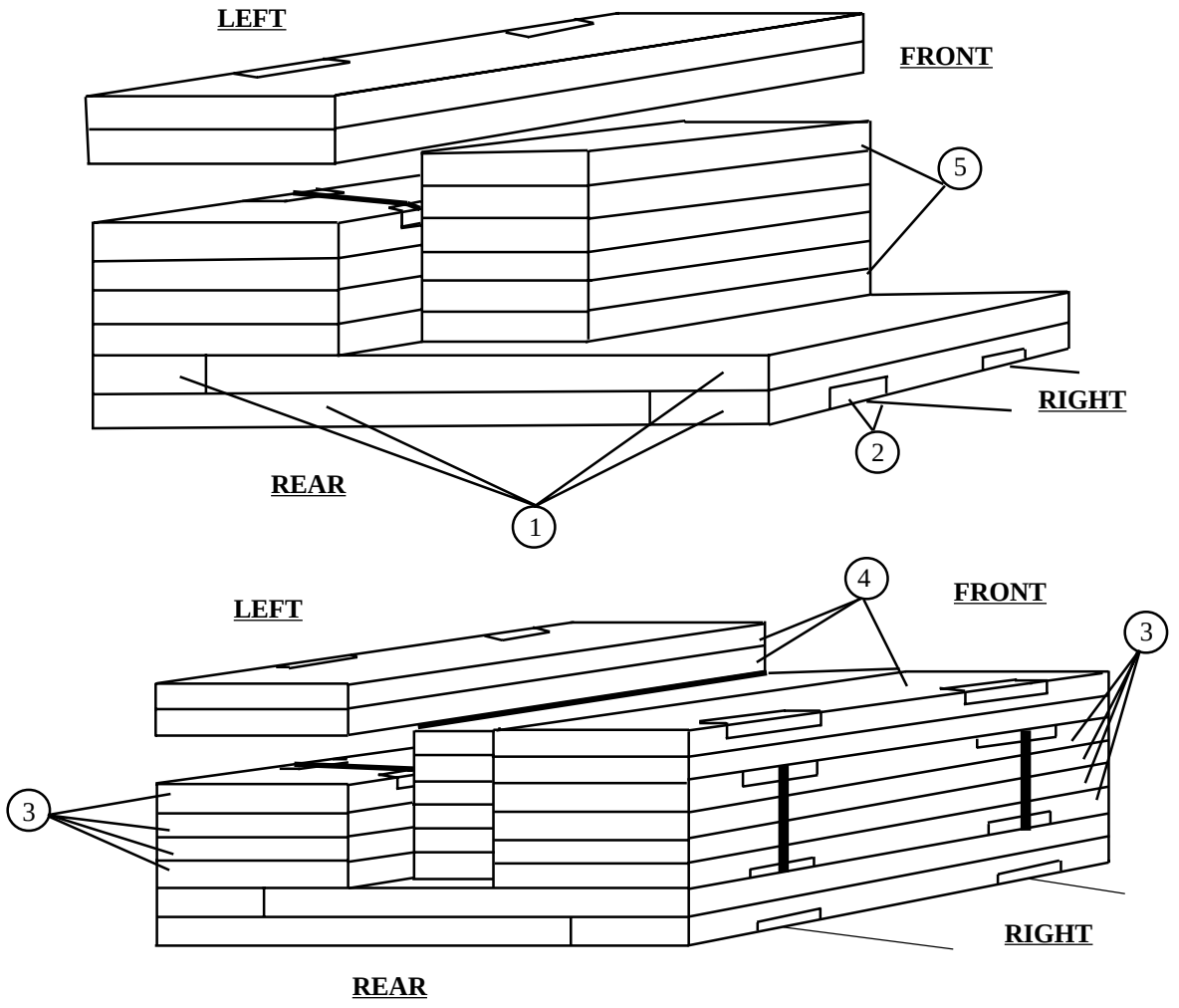
(11) Glue and nail a 8- by 16-inch piece of 3/4-inch plywood flush with front left edge of the 48- by 46-inch piece of 3/4-inch plywood.

(12) Glue and nail a 8- by 6-inch piece of 3/4-inch plywood flush with rear left edge of the 8- by 16-inch piece of 3/4-inch plywood.

(13) Glue and nail a 10- by 10-inch piece of 3/4-inch plywood flush with front edge, 8 inches from right side.

(14) Form two stacks by gluing and nailing two 12- by 14-inch pieces of 3/4-inch plywood together. Position one stack against the rear edge of the 10- by 10-inch piece of 3/4-inch plywood. Ensure the 12 inch side is flush with right edge of the 48- by 46-inch piece of 3/4-inch plywood. Glue and nail the other stack flush with right rear edge of the 48- by 46-inch piece of 3/4-inch plywood. Ensure the 12 inch side is flush with right edge of the 48- by 46-inch piece of 3/4-inch plywood. Glue all lumber to honeycomb base.

Figure 2-5. Stack 3 prepared (continued)



STACK 4

1. Position a 36- by 44-inch piece of honeycomb beside a 12- by 44-inch piece of honeycomb. Alternate and glue a 36- by 44-inch piece of honeycomb and a 12- by 44-inch piece of honeycomb on top of the pieces of honeycomb to form the base.

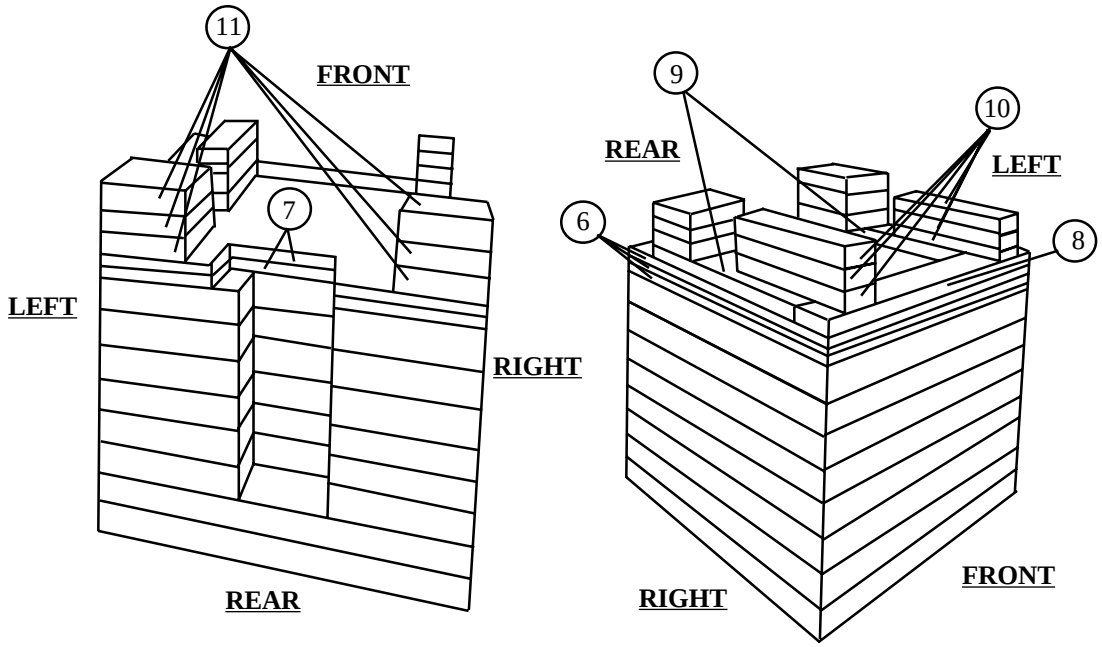
2. Place length of cloth backed tape on the bottom outer edges of the base. Position two 13-foot lengths of type III nylon cord under the base aligned with the strips of tape.

3. Form two stacks by gluing four 18- by 44-inch pieces of honeycomb together. Place length of tape on all edges. Run two lengths of 1/2-inch tubular nylon webbing over the strips of tape and around the stack. Secure and tie with a square knot on the outside of the stack. Place on the left and right sides of base **(Do NOT glue to base)**.

4. Form two stacks by gluing two 12- by 44-inch pieces of honeycomb together. Place length of cloth backed tape on the outer edges **(Do NOT glue to stacks).** Position one stack on each of the previous stacks.

5. Glue six 12- by 36-inch pieces of honeycomb together to form a stack. Position between 18- by 44-inch stacks and flush with the front of base **(Do NOT glue to base).** Secure and tie the type III nylon cord around the completed honeycomb stack.

Figure 2-6. Stack 4 prepared



STACK 4

(6) Glue and nail three 48- by 44-inch pieces of 3/4-inch plywood together. **(Do not build lumber stack on honeycomb stack. The lumber will be placed on the stack later.)**

(7) Cut a 26-inch by 15-inch deep cutout centered in the rear of the 48-inch side of plywood.

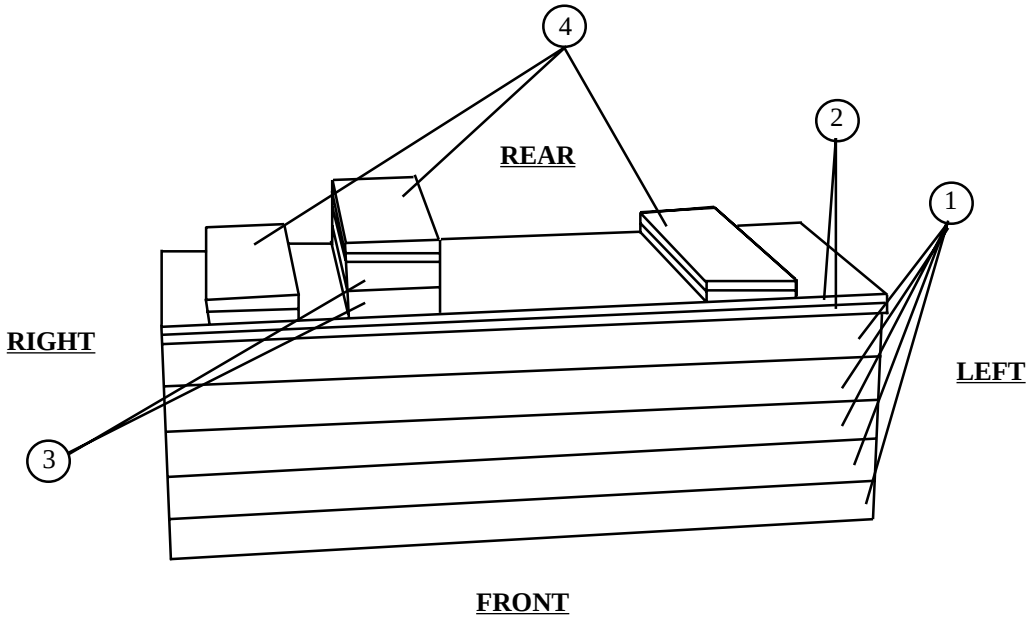
(8) Glue and nail a 2- by 6- by 48-inch piece of lumber with front edge of 48- by 44-inch piece of 3/4-inch plywood.

(9) Glue and nail two 2- by 12- by 34-inch pieces of lumber, one piece flush with the left side and the other flush on the right side of the 48- by 44-inch piece of 3/4-inch plywood and against the 2- by 12- by 48-inch piece of lumber.

(10) Form two stacks by gluing and nailing three 2- by 6- by 21-inch pieces of lumber together. Place one stack flush with the front of the 2- by 6- by 48-inch piece of lumber edge and 5 1/2 inches from the left edge. Glue and nail the other stack flush with the front of the 2- by 6- by 48-inch lumber edge and 5 1/2 inches from the right side.

(11) Form two stacks by gluing and nailing three 2- by 12- by 12-inch pieces of lumber together. Place one stack flush with the rear right edge of the 2- by 12- by 34-inch piece of lumber. Repeat for the the left side. Glue all lumber to honeycomb.

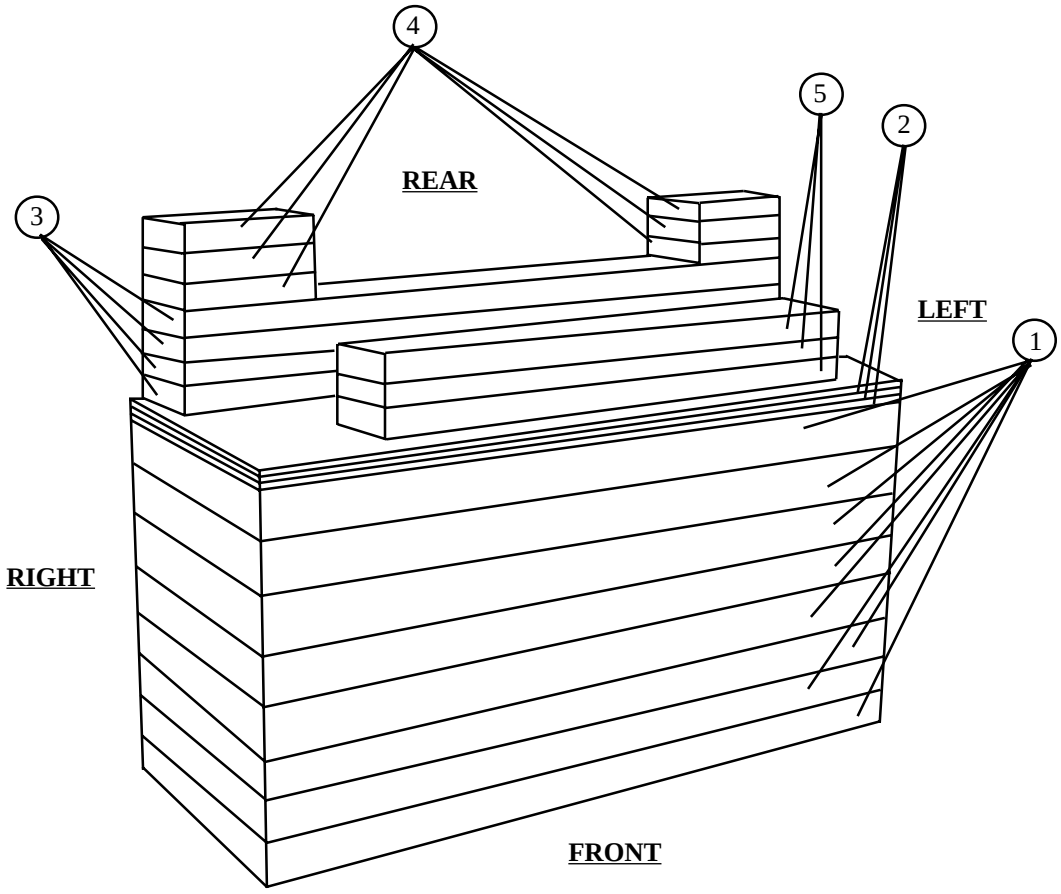
Figure 2-6. Stack 4 prepared (continued)



STACK 5

1. Glue five 18- by 60-inch pieces of honeycomb together to form base.
2. Glue and nail two 18- by 60-inch pieces of 3/4-inch plywood together. Glue to top of base.
3. Glue and nail two 2- by 6- by 18-inch pieces of lumber together. Glue and nail 16 1/2 inches from right edge of 18- by 60-inch piece of 3/4-inch plywood.
4. Form three stacks by gluing and nailing two 5 1/2- by 18-inch pieces of 3/4-inch plywood together. Glue one stack 5-inches from right edge of base. Glue another stack on top of the 2- by 6- by 18-inch piece of lumber. Glue the remaining stack 5 inches from the left side of base. Glue all lumber to honeycomb.

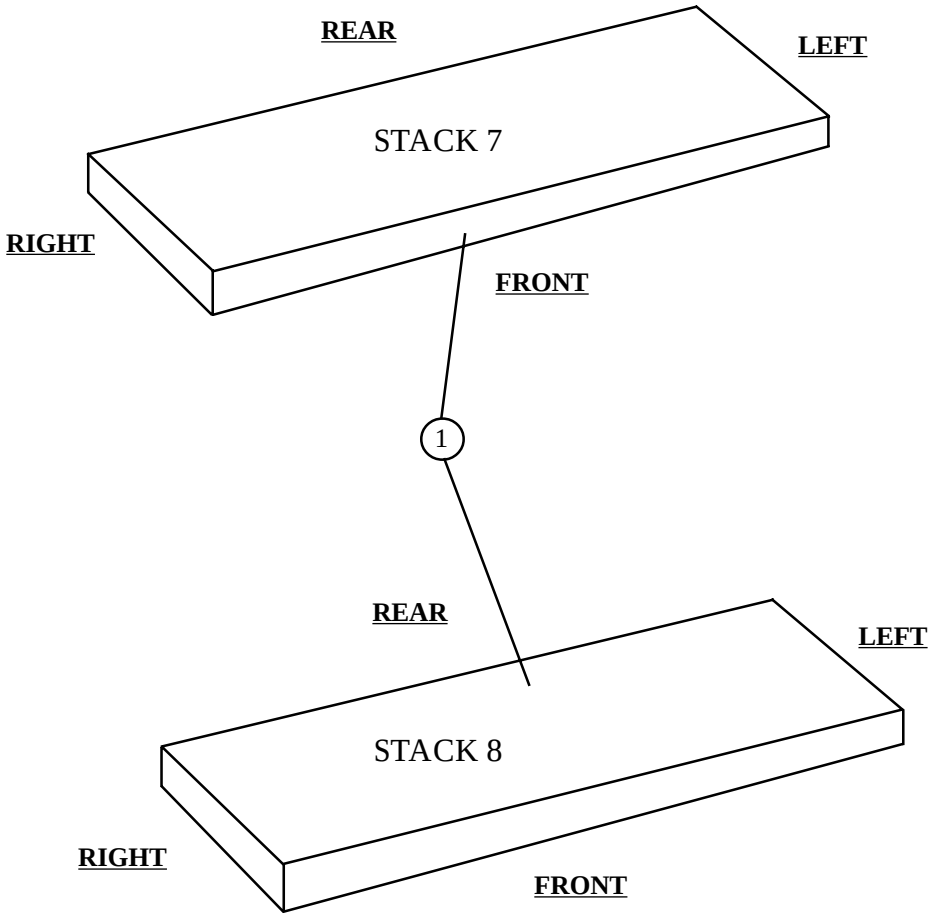
Figure 2-7. Stack 5 prepared



STACK 6

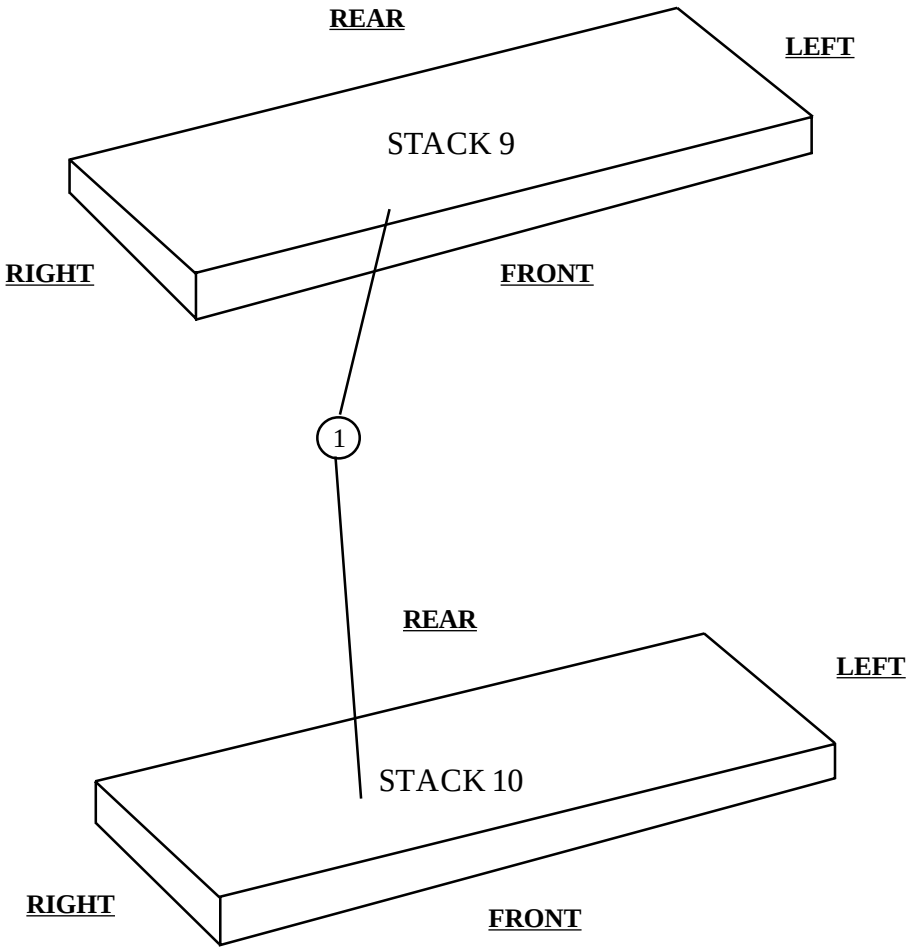
1. Glue eight 18- by 48-inch pieces of honeycomb together to form base.
2. Glue and nail three 18- by 48-inch pieces of 3/4-inch plywood together. **(Do not place on honeycomb. Will be accomplished in last step).**
3. Glue and nail four 2- by 6- by 45-inch pieces of lumber flush with the rear and centered on the 18- by 48-inch piece of 3/4-inch plywood.
4. Form two stacks by gluing and nailing three 2- by 6- by 8-inch pieces of lumber together. Glue and nail one stack to left edge of 2- by 6- by 45-inch piece of lumber. Glue and nail the other stack to the right edge of the 2- by 6- by 45-inch piece of lumber.
5. Glue and nail three 2- by 6- by 33-inch pieces of lumber 2 inches from the edge and centered. Glue all lumber to honeycomb base.

Figure 2-8. Stack 6 prepared



(1) Cut two 18- by 96-inch pieces of honeycomb. No further preparation is needed.

Figure 2-9. Stacks 7 and 8 prepared



(1) Cut two 18- by 74-inch pieces of honeycomb. No further preparation is needed.

Figure 2-10. Stacks 9 and 10 prepared

2-4. Positioning Honeycomb Stacks

Postition the honeycomb stacks as shown in *Figure 2-11*.

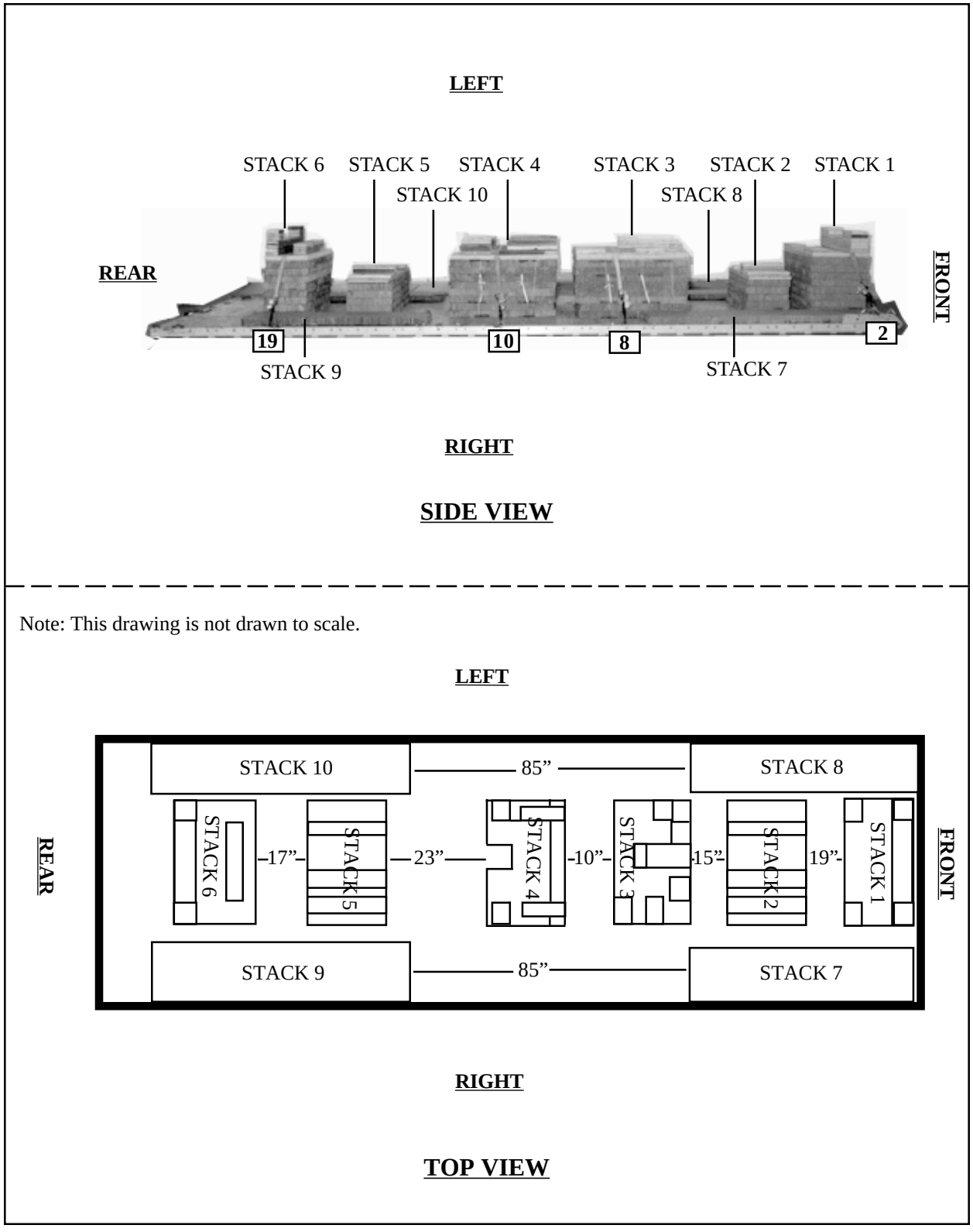


Figure 2-11. Honeycomb stacks positioned on platform

Stack Number	Instructions
1	Position stack 1, centered and flush with the front edge of the platform. Secure the stack by passing a lashing through clevis 2A and it's own D-ring. Route the lashing over the stack and secure it with a loadbinder to clevis 2.
2	Position stack 2, 19 inches from stack 1, 22 inches from the left side rail, and 28 inches from right side rail.
3	Position stack 3, 15 inches from stack 2, 30 1/4 inches from the left side rail and 19 1/4 inches from the right side rail. Secure the stack by passing a lashing through clevis 8A and it's own D-ring. Route the lashing over the stack and secure it with a loadbinder to clevis 8.
4	Position stack 4, 10 inches from stack 3, 25 1/2 inches from the left side rail and 24 1/4 inches from the right side rail. Secure the stack by passing a lashing through clevis 10A and it's own D-ring. Route the lashing over the stack and secure it with a loadbinder to clevis 10.
5	Position stack 5, 23 inches from stack 4, 19 1/4 inches from the left side rail, and 18 inches from right side rail.
6	Position stack 6, 17 inches from stack 5, 26 inches from the left side rail and 23 inches from the right side rail. Secure the stack by passing a lashing through clevis 19A and it's own D-ring. Route the lashing over the stack and secure it with a loadbinder to clevis 19.
7	Position stack 7, flush with the front edge of the platform and flush with the right side rail.
8	Position stack 8, flush with the front edge of the platform and flush with the left side rail.
9	Position stack 9, 85 inches from the rear of stack 7 and flush with the right side rail.
10	Position stack 10, 85 inches from the rear of stack 8 and flush with the left side rail.

Figure 2-11. Honeycomb stacks positioned on platform (Continued)

2-5. Preparing Truck

Prepare the M1081 truck as decribed below and as shown in *Figure 2-12.*

a. Make sure the fuel tank is 3/4 full.

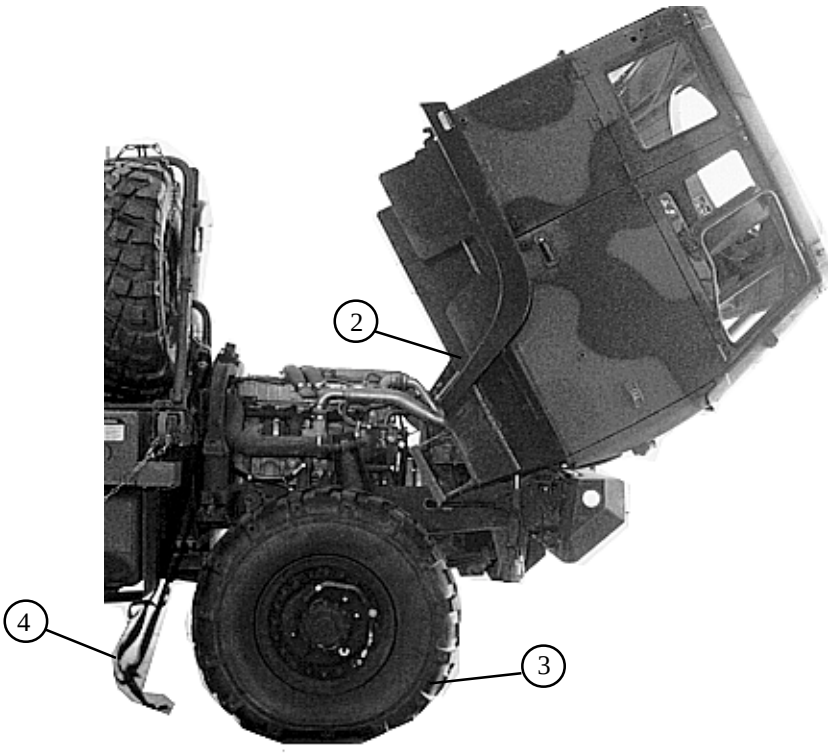
b. Make sure the batteries and compartment comply with AFJMAN 24-204/TM 38-250.

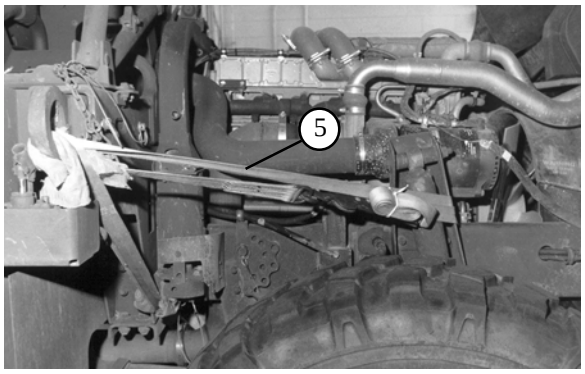
The following is a list of materials used for truck preparation.

PIECES	WIDTH (inches)	LENGTH (inches)	MATERIAL
1	36	36	Honeycomb
1	36	80	Honeycomb
2	18	60	Honeycomb
10	2- by 6	13	Lumber
2	4- by 4	6	Lumber
2	4- by 4	15	Lumber
4	2- by 4	6	Lumber
1	10	10	3/4-inch Plywood
3	2- by 6	6	Lumber
1	36	96	Honeycomb
4	1/2	10	Bolts (washers and nuts)

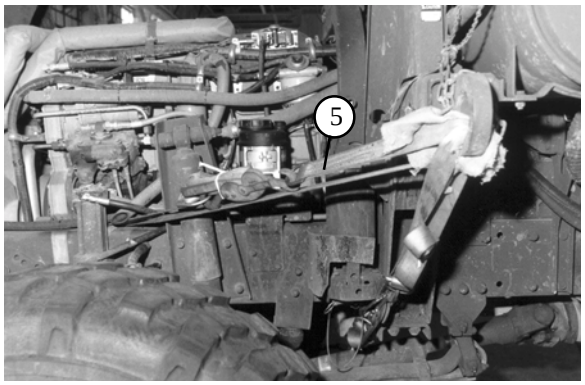
NOTES: 1. The truck should arrive at the rigging site with the gun turret removed from roof and replaced with flat insert.

2. The cargo/troop carrier cover, bows, cargo/troop carrier cover poles, bed stakes, seat bars, seats and side rails located in the rear of the truck should be removed and packed as basic load.





RIGHT



LEFT

(1) Remove any radio antennae mounts on the outside of the cab. (Not shown)

(2) Place the cab compartment in the raised position.

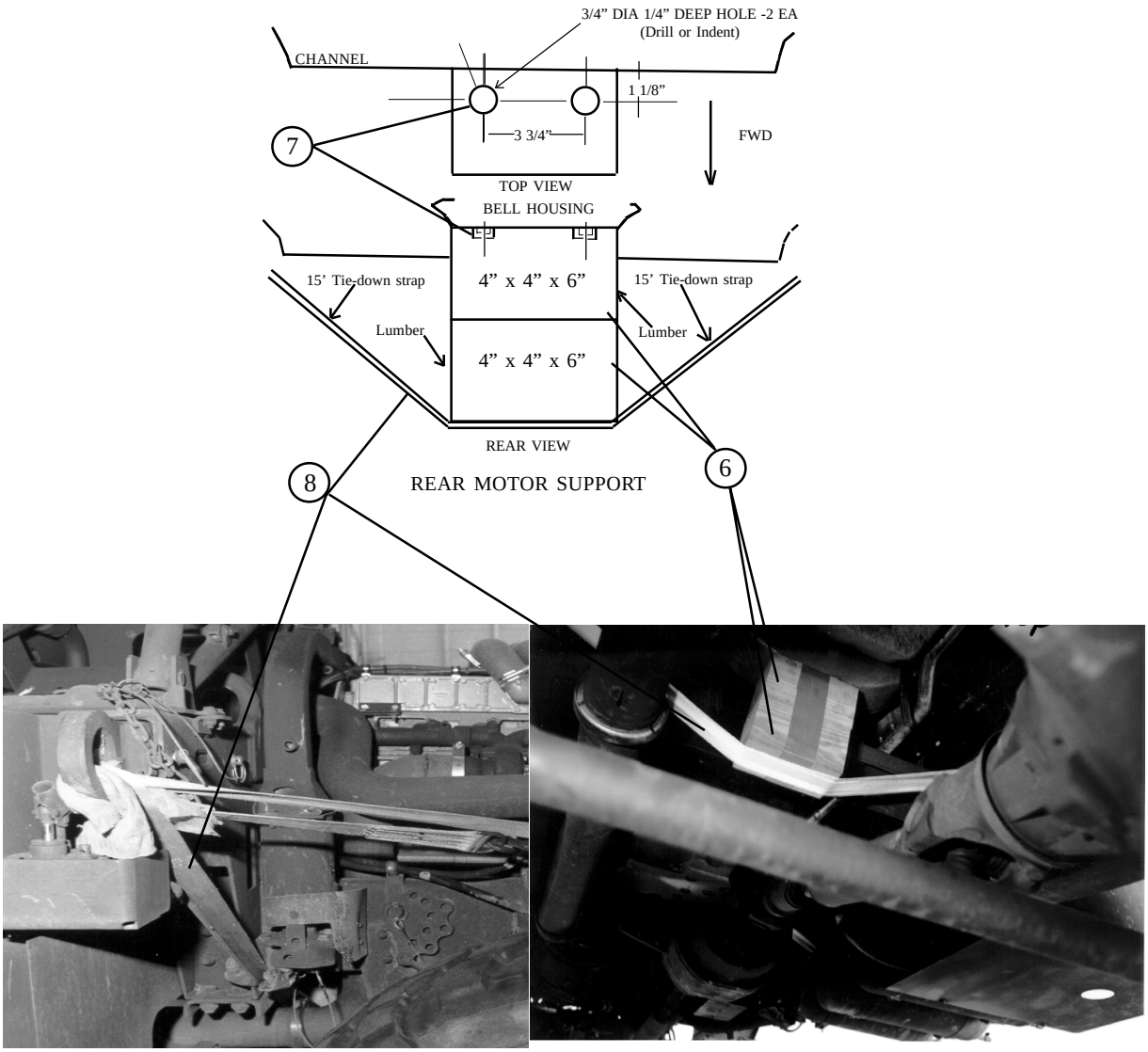
(3) Deflate all tires to sand mode (20 PSI), allowing the vehicle to sit on the honeycomb stacks correctly.
Note: Verify each individual tire pressure for accuracy.

(4) Remove the tire strap.

(5) Route a 15-foot tiedown lashing through the right side lifting point, in front of the shock, over the frame, behind/under the motor mount, back over the frame, back in front of the shock, and back to the lifting point. Secure the lashing with a D-ring and loadbinder. (Ensure lashing runs underneath all hoses and wiring). Repeat for the left side.

Figure 2-12. Truck prepared

Note: This drawing is not drawn to scale.



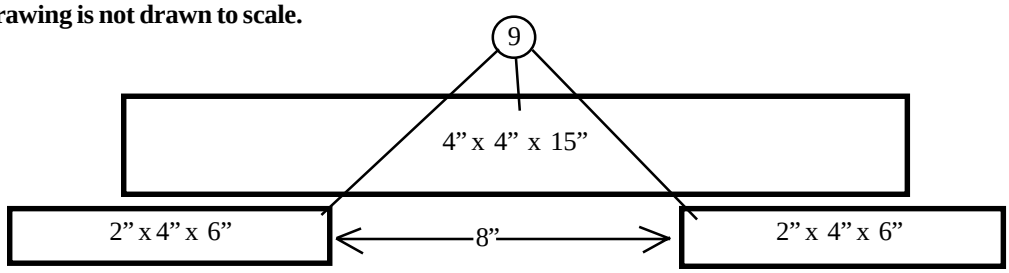
(6) Cut two 4- by 4- by 6-inch pieces of lumber.

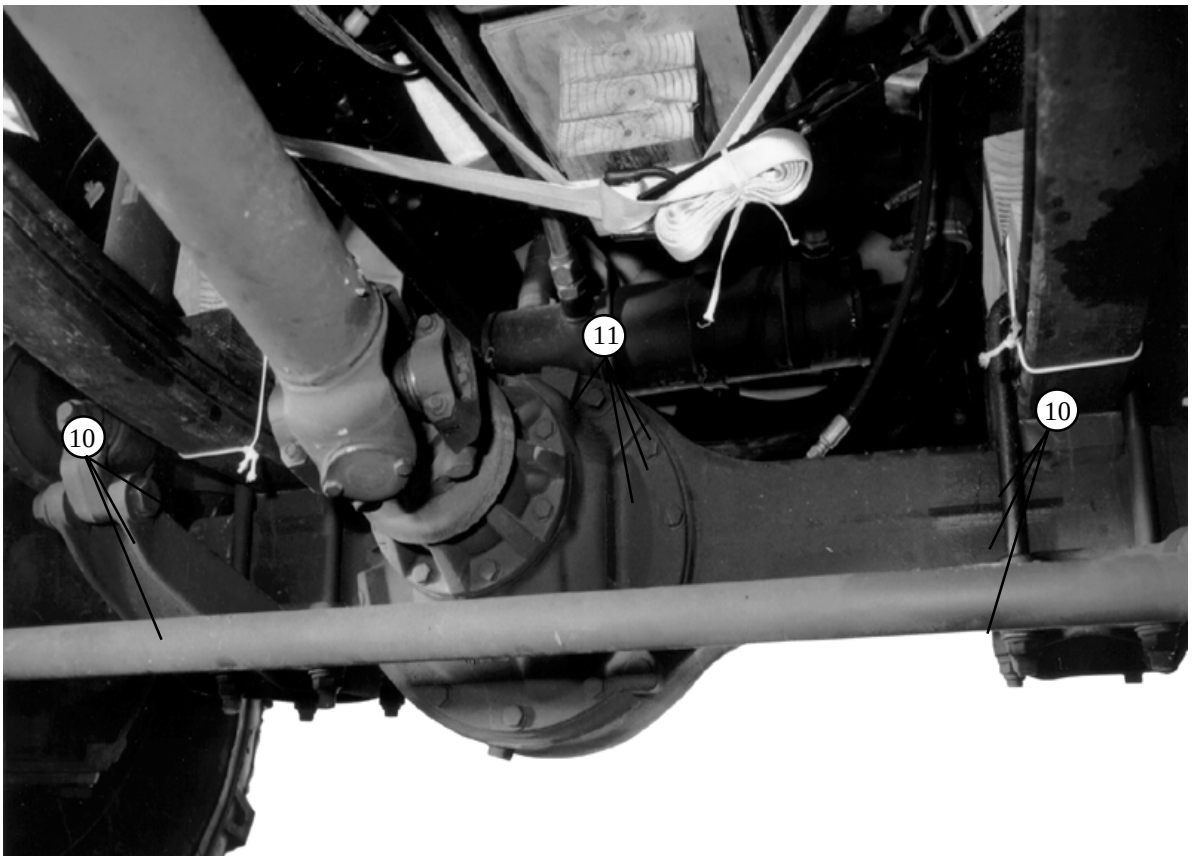
(7) Countersink two holes 3/4-inch in diameter, 1/4-inch deep, and 1 1/8 inch from the edge on the 6 inch side, with a 3 3/4 inch center to center hole measurement in one piece of 4- by 4- by 6-inch lumber. Place the other 4 - by 4- by 6-inch piece of lumber under the first piece of lumber and tape them together leaving the holes exposed.

(8) Place the countersunk holes of the 4- by 4- by 6-inch piece of lumber over the bolts in the bell housing. Route a 30-foot lashing through the right side lifting point under the 4- by 4- by 6-inch piece of lumber and through the left side lifting point, and back under the 4- by 4- by 6-inch piece of lumber. Secure with a D-ring and loadbinder.

Figure 2-12. Truck prepared (Continued)

Note: This drawing is not drawn to scale.





(9) Glue and nail together one 4- by 4- by 15-inch piece of lumber and two 2- by 4- by 6-inch pieces of lumber for each axle.

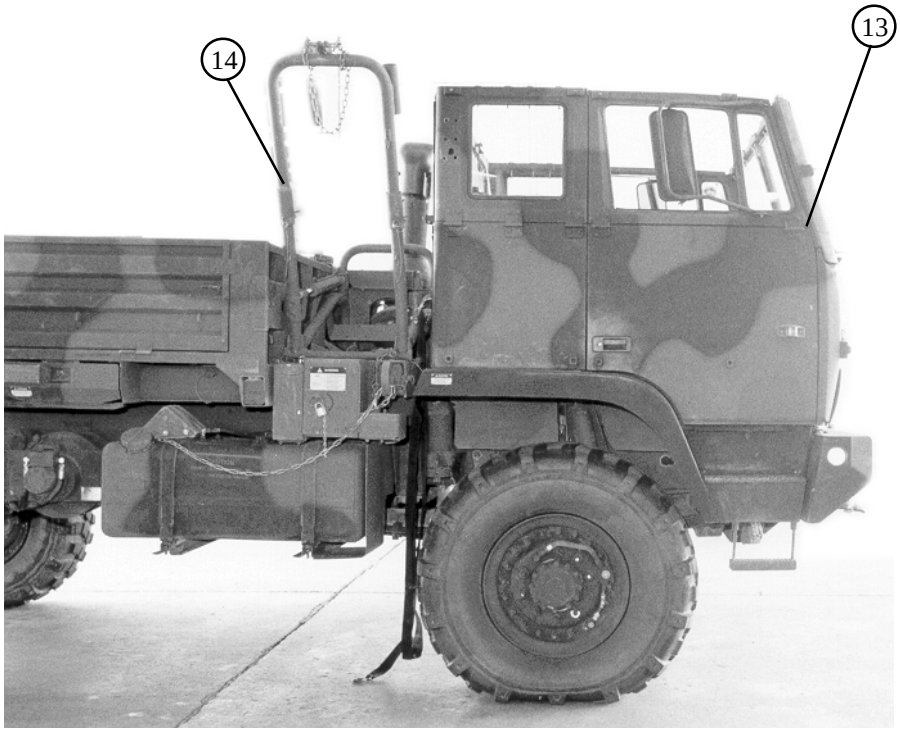
(10) Position them on top of the right and left axles and secure with type III nylon cord.

(11) Position a 10- by 10- by 3/4-inch piece of plywood and three 2- by 6- by 6-inch pieces of lumber against the oil pan and front of the engine.

Figure 2-12. Truck prepared (Continued)

(12) Route a 15-foot lashing in rear of motor mounts around the left and right main frames (under all hoses). Secure the lumber and plywood with D-ring and loadbinder.

Figure 2-12. Truck prepared (Continued)



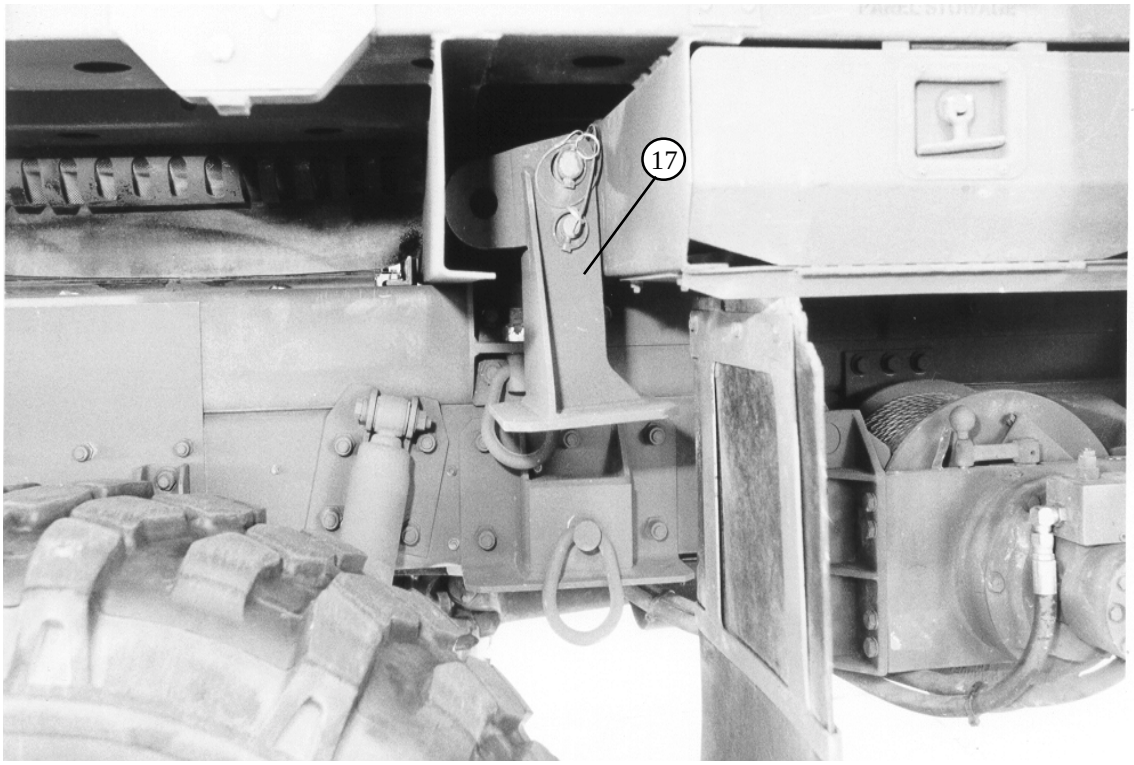
(13) Place the cab in the lowered position.

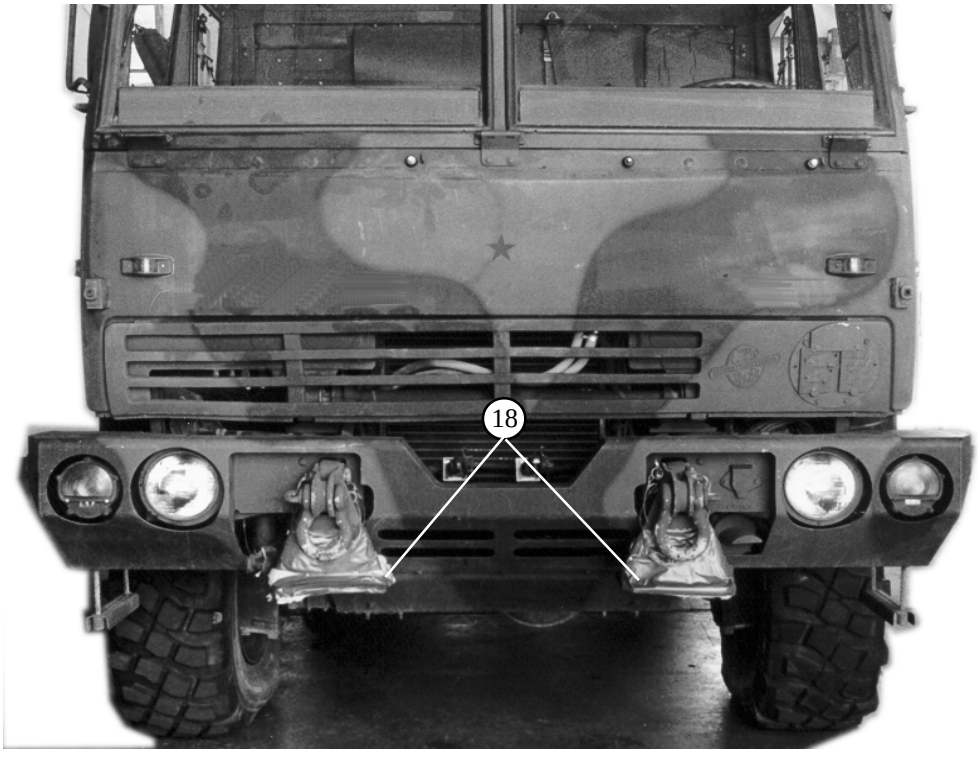
(14) Remove the spare tire from the rack and leave the spare tire carrier down.

(15) Remove the davit. (It is attached to the back of cab.) (Not shown)

(16) Remove the windshield wipers and stow the bolts and blades in the cab. (Not shown)

Figure 2-12. Truck prepared (Continued)

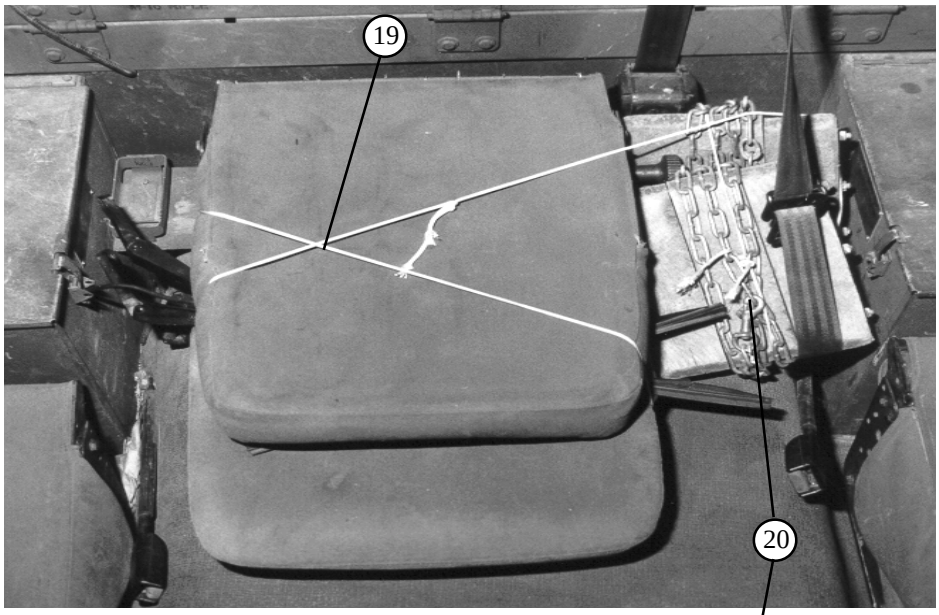




(17) Remove the front support brackets from under the bed of the truck.

(18) Install them on the front of the vehicle and wrap the outside edges with cellulose wadding and tape.

Figure 2-12. Truck prepared (Continued)

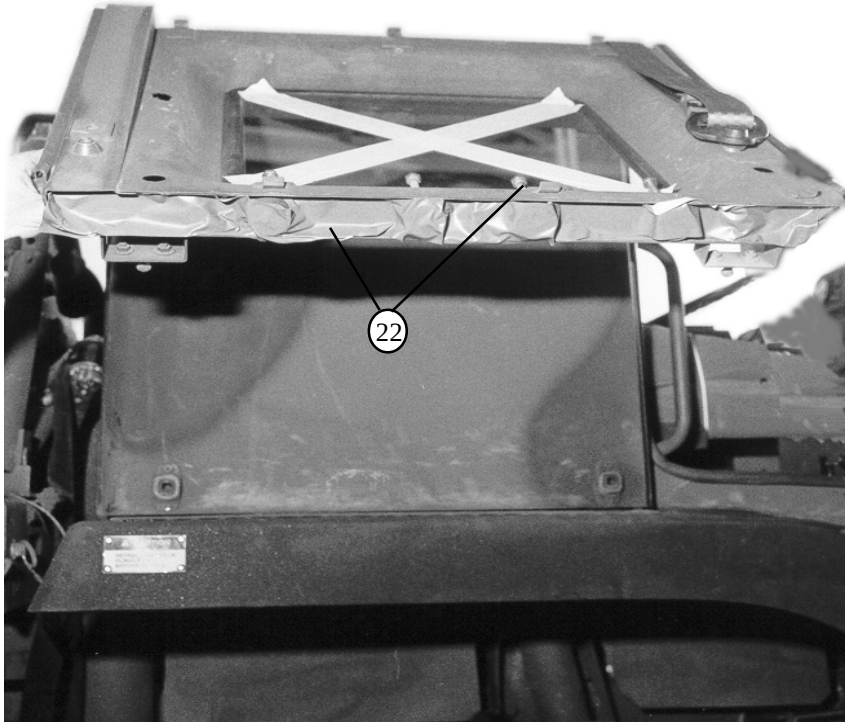


(19) Secure the chock blocks in cab or in storage box.

(20) Lower the seats and secure with type III nylon cord.

(21) Secure the fire extinguisher with type III nylon cord. (Not shown)

Figure 2-12. Truck prepared (Continued)

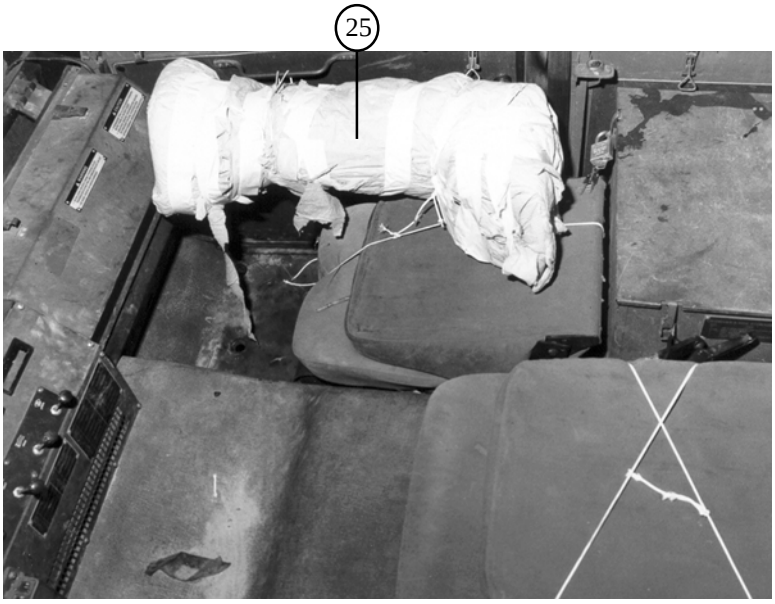


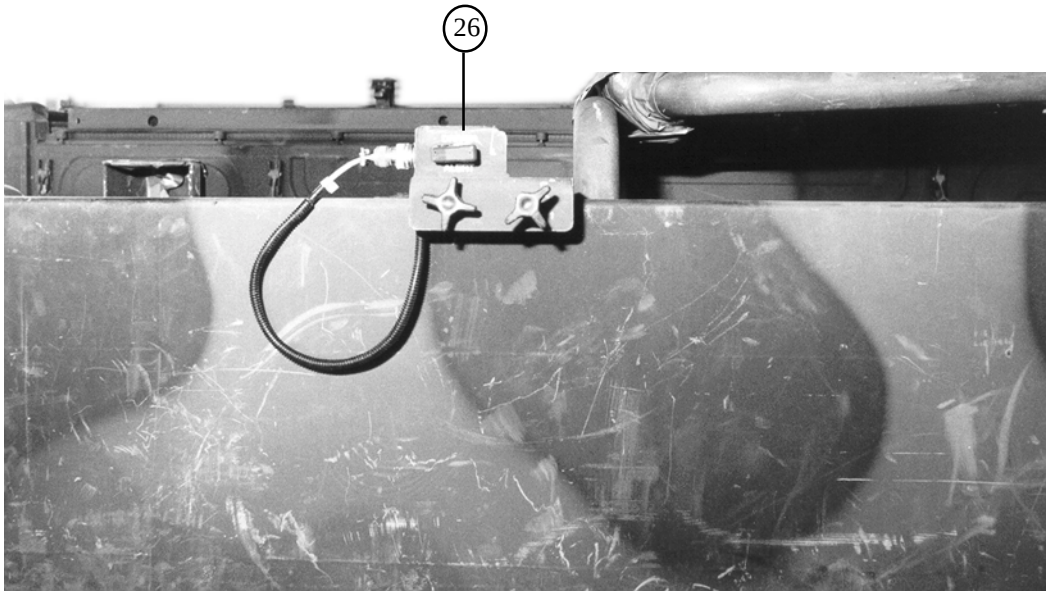
(22) Remove the roof and secure the roof bolts with tape.

(23) Fold down the windows, windshield and rear of the cab.

(24) Roll the windows down.

Figure 2-12. Truck prepared (Continued)



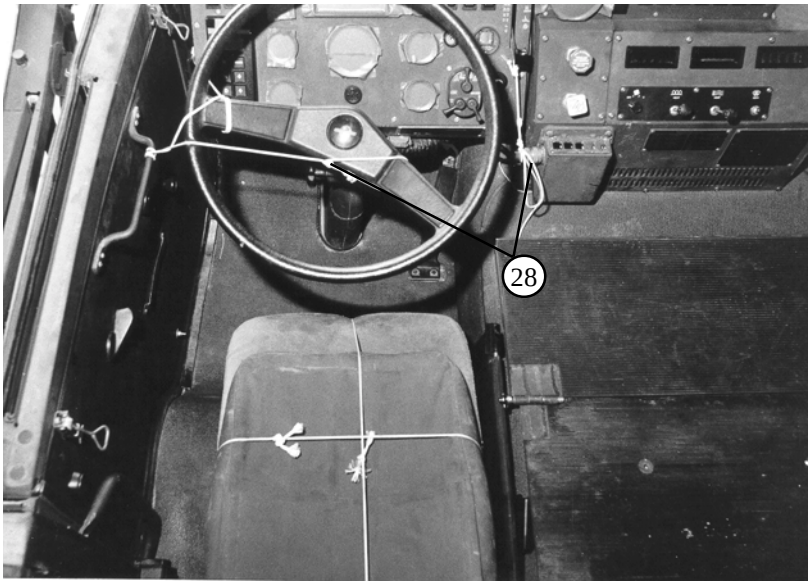


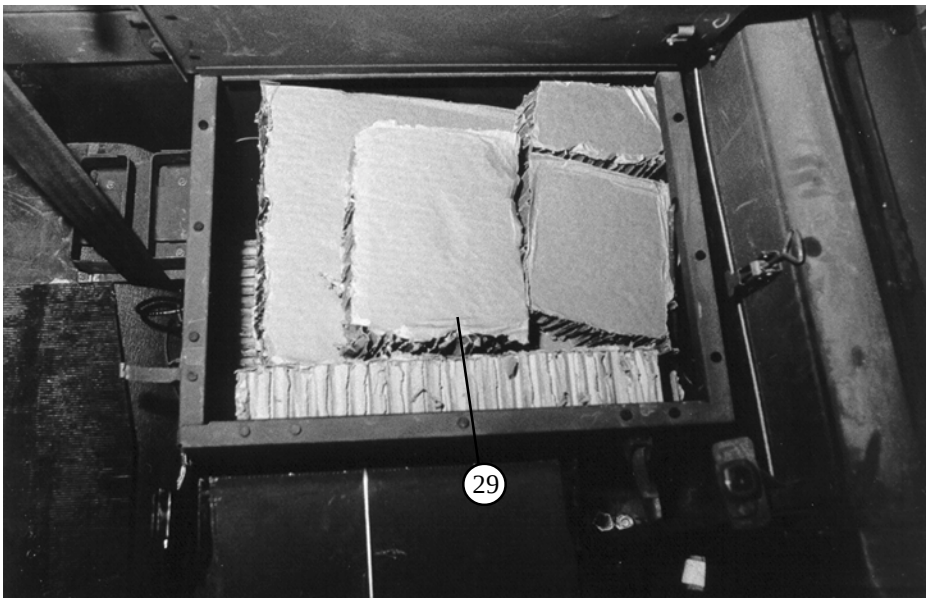
(25) Remove the air intake stack. Wrap it with cellulose wadding and stow in the cab.

(26) Remove the driver alert switch and stow in the cab. Tape the electrical connection.

(27) Remove the sunvisors and stow in the cab. (Not shown)

Figure 2-12. Truck prepared (Continued)

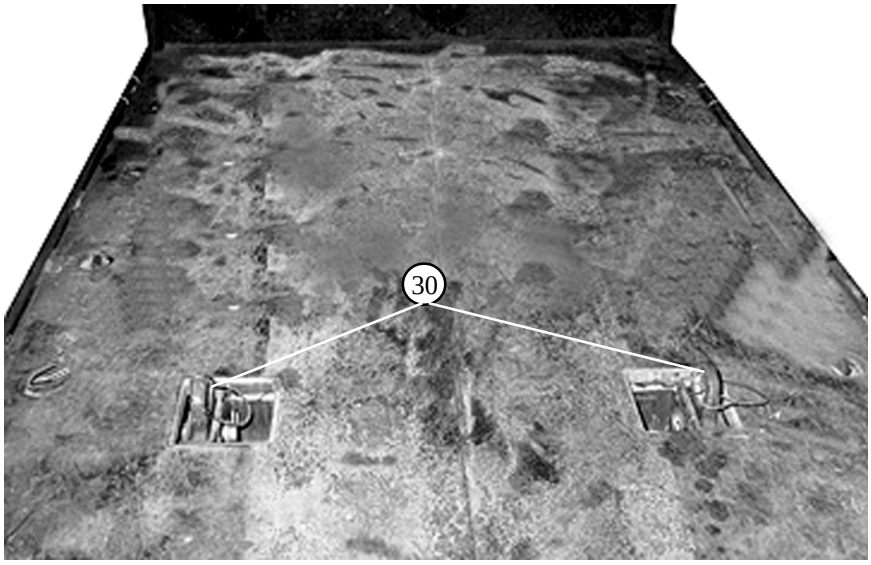


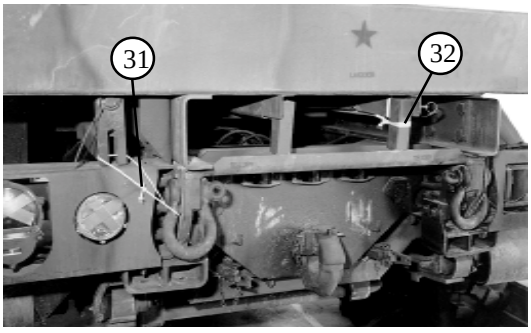


(28) Secure the steering wheel and hand throttle with type III nylon cord.

(29) Fill the driver and passenger storage boxes with honeycomb.

Figure 2-12. Truck prepared (Continued)



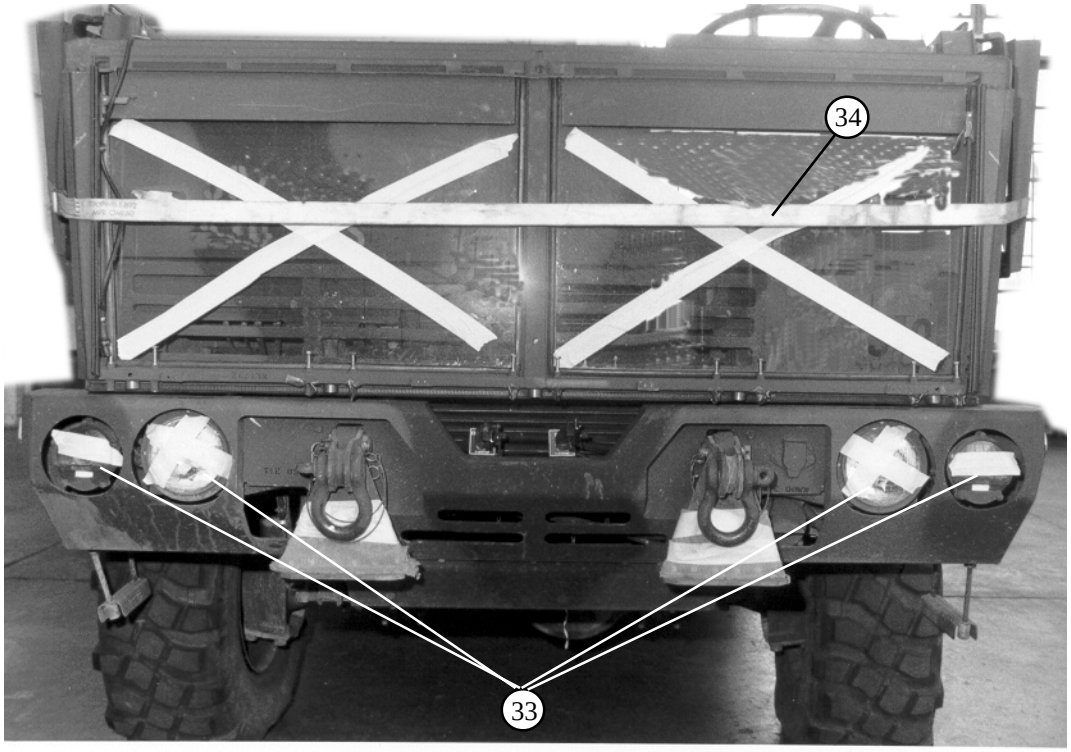


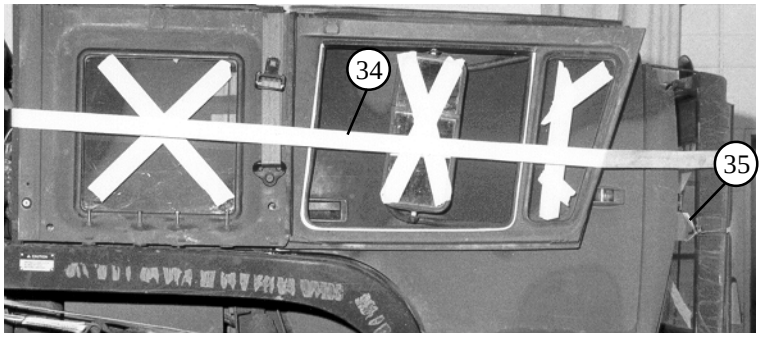
(30) Safety the left and right rear lifting pins (located on the truck bed near the rear with cover over them) with type III nylon cord. Route the type III nylon cord through the safety pin pull ring and around the safety pin. Stow the covers in the cab.

(31) Secure the ladder in place with a length of 1/2 -inch tubular nylon webbing.

(32) Secure the tow bar on the left side of the truck with a piece of type III nylon cord to the top left rear tie-down point.

Figure 2-12. Truck prepared (Continued)



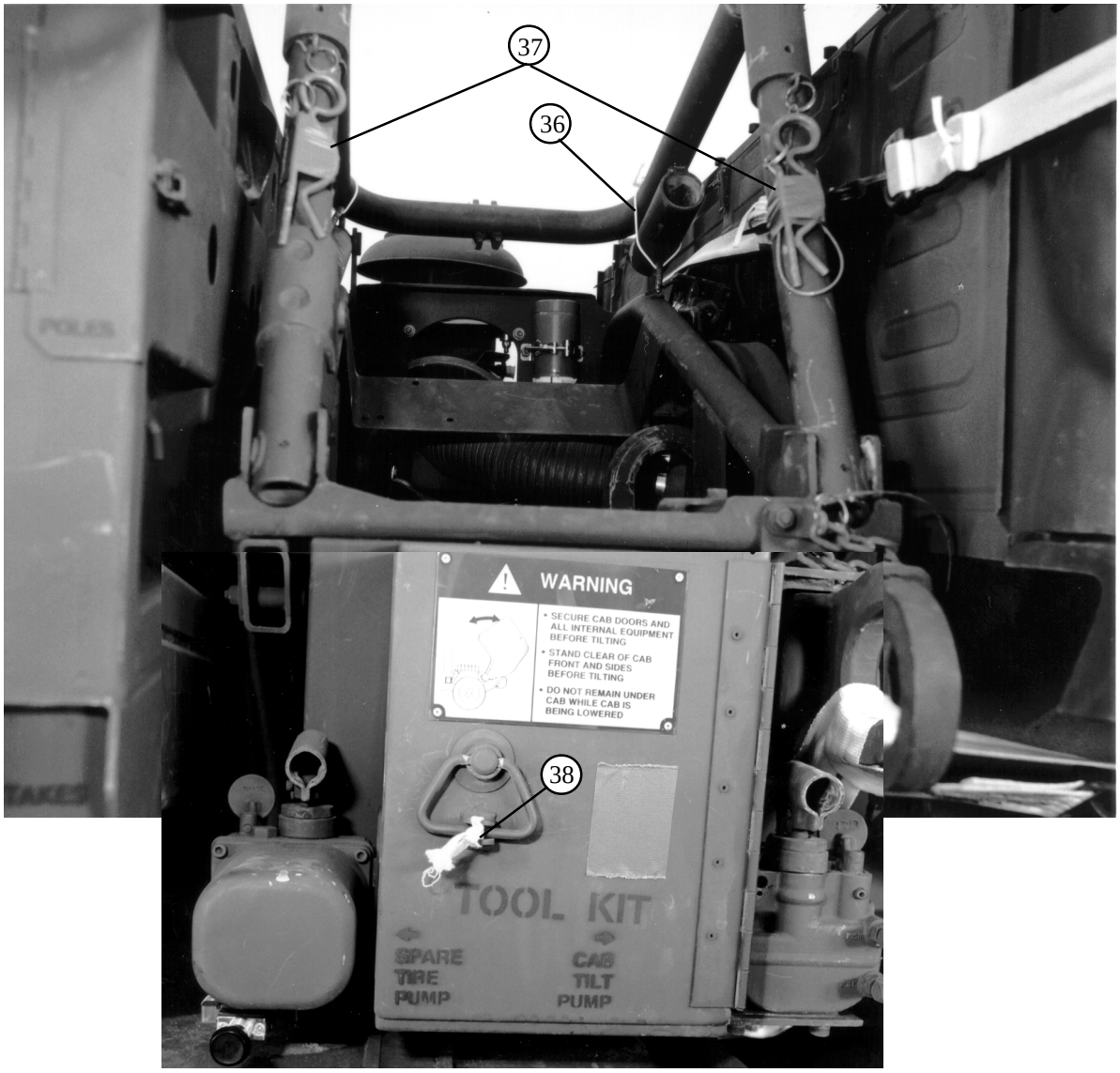


(33) Tape all lights, reflectors, and windows and pad mirrors with cellulose wadding and tape.

(34) Route a 30-foot lashing around the cab and secure with a loadbinder and D-rings in the rear of the cab. (Ensure D-rings do not come in contact with the glass).

(35) Secure the windshield to the left and right windshield stops with 1/2 -inch tubular nylon webbing.

Figure 2-12. Truck prepared (Continued)

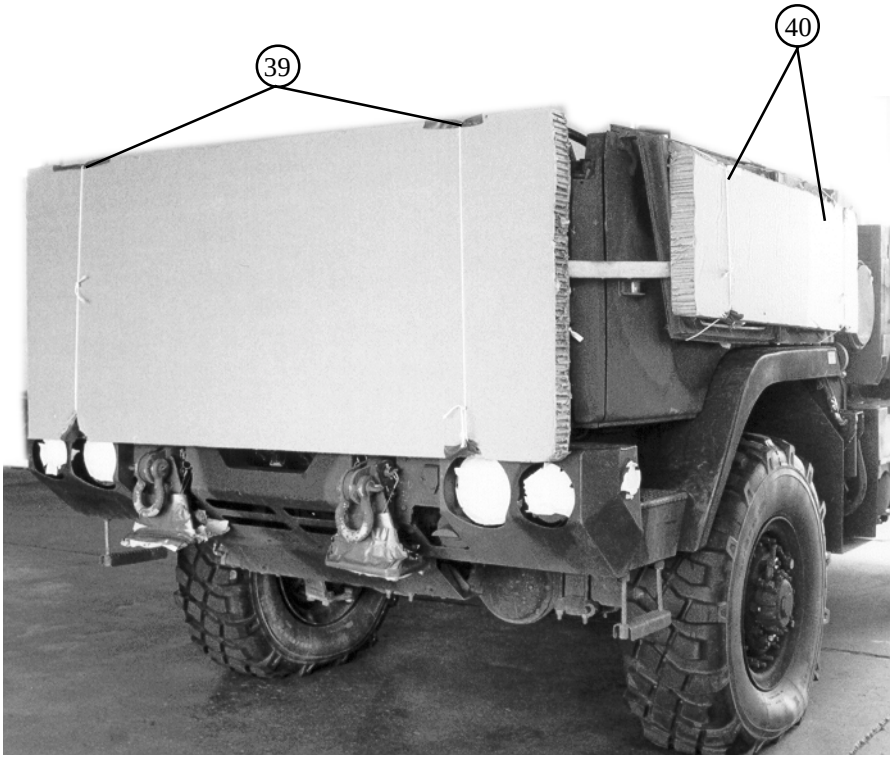


(36) Retract the spare tire carrier and secure with 1/2-inch tubular nylon webbing.

(37) Tape the chains and pins in place on the spare tire carrier.

(38) Secure the tool kit access panel with a length of type III nylon cord.

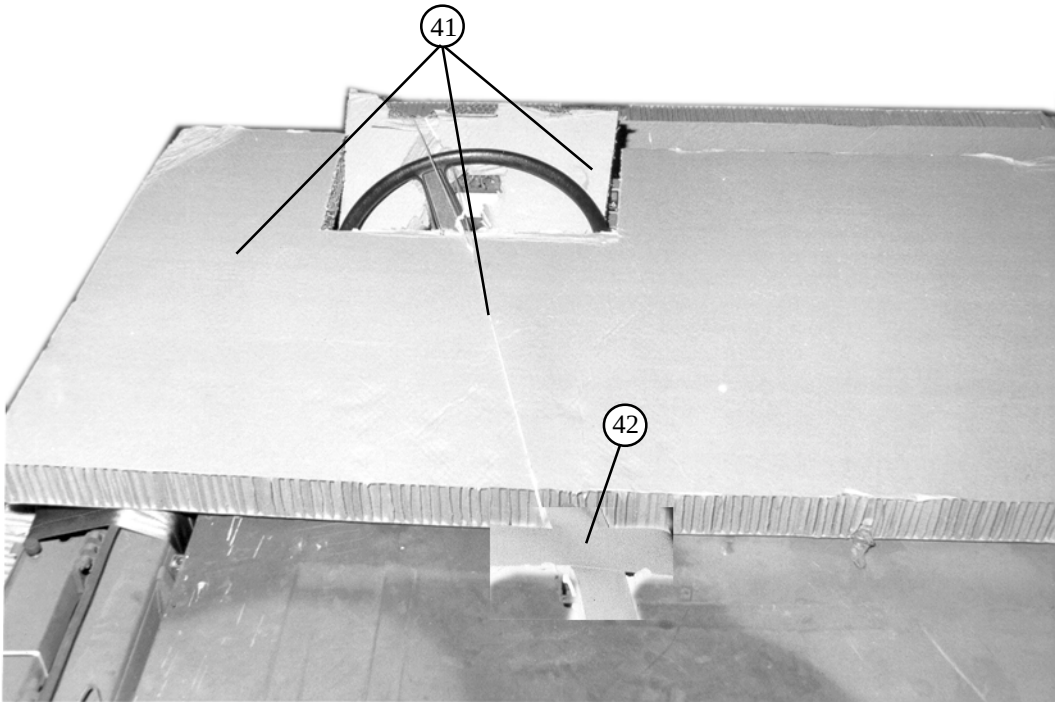
Figure 2-12. Truck prepared (Continued)



(39) Place a 36- by 80-inch piece of honeycomb on the windshield. Secure it with two lengths of type III nylon cord.

(40) Place one 18- by 60-inch piece of honeycomb on the left side window and one piece on the right side window. Secure each with two lengths of type III nylon cord.

Figure 2-12. Truck prepared (Continued)

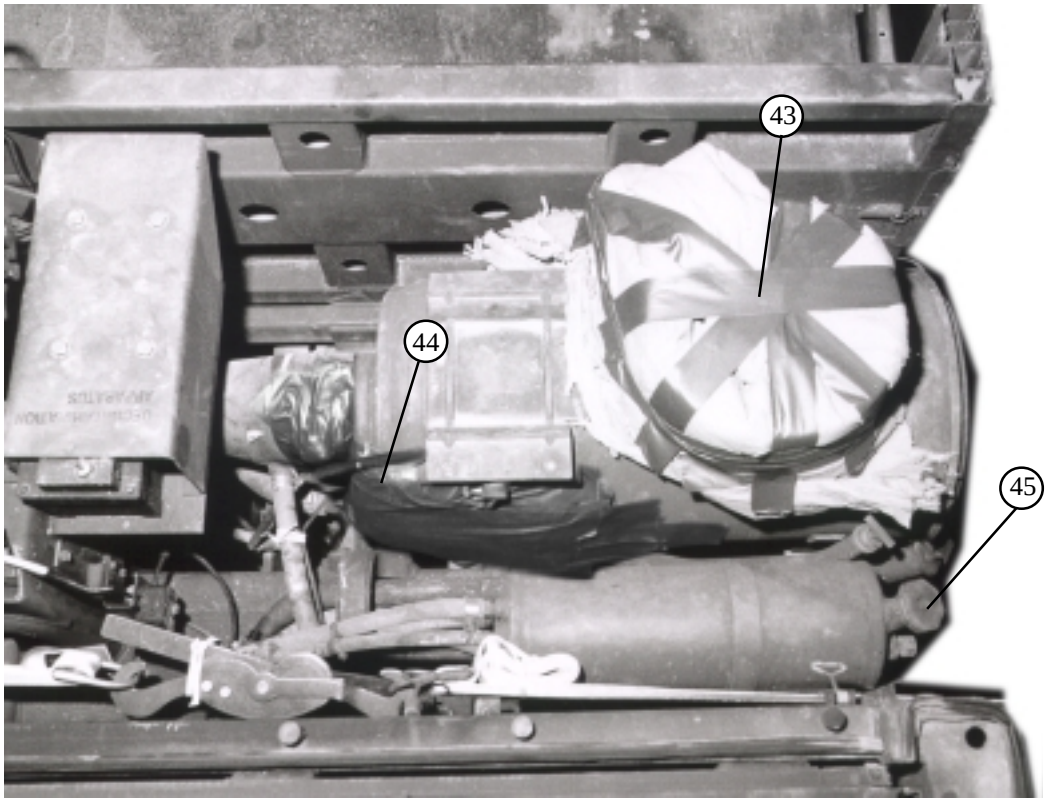


(41) Place a 36- by 96-inch piece of honeycomb over the driver's compartment. Cut out a section (approximately 12- by 21-inches) for the steering wheel and place it over the instrumentation panel in the cab. Secure both pieces with type III nylon cord.

(42) Pad the davit holders with cellulose wadding and secure with cloth-backed tape.

Figure 2-12. Truck prepared (Continued)

Note: Hoses that will interfere with the attaching of the suspension slings should be tied back.

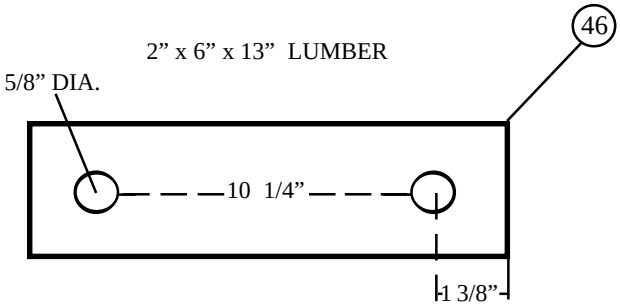


(43) Wrap the air intake fitting with cellulose wadding and secure with cloth-backed tape. Secure the end hose out of the way with type III nylon cord.

(44) Pad the lower air intake fitting with felt and secure with cloth-backed tape.

(45) Ensure the radiator pressure cap is secure.

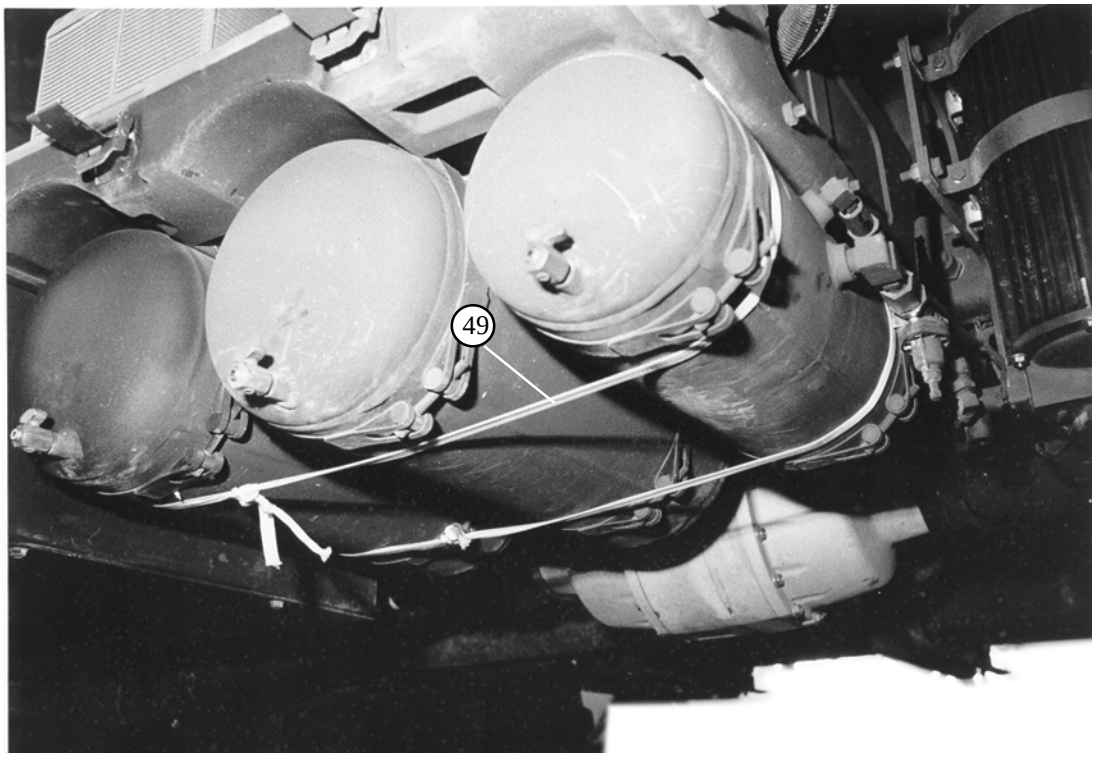
Figure 2-12. Truck prepared (Continued)



(46) Cut ten 2- by 6- by 13-inch pieces of lumber. Drill two 5/8-inch diameter holes 1 3/8-inches from the edge, with a 10 1/4-inch center to center hole measurement in each piece of lumber.

(47) Bolt five 2- by 6- by 13-inch pieces of lumber to the left and right side frame pads using two 1/2- by 10-inch bolts on each side.

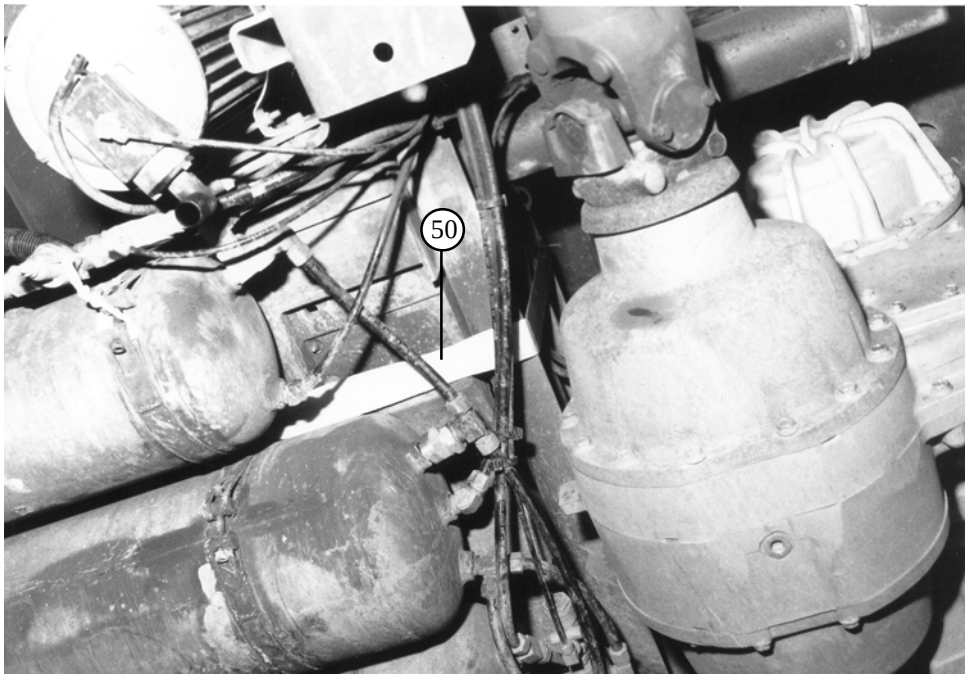
Figure 2-12. Truck prepared (Continued)

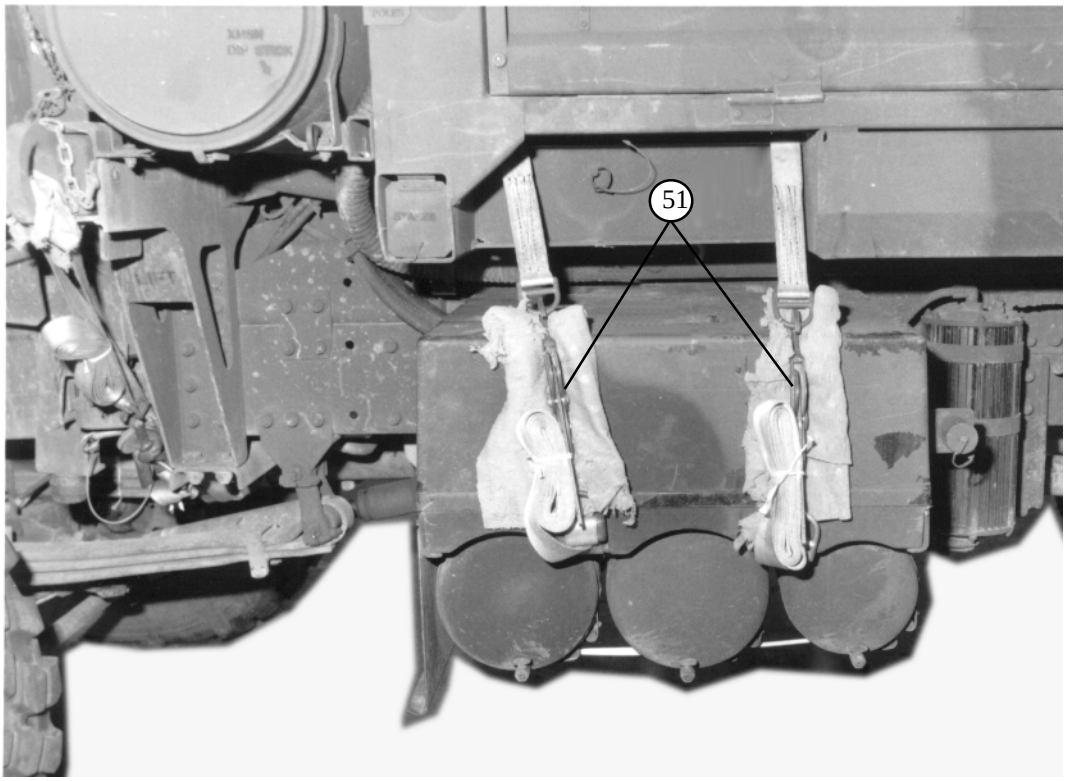


(48) Remove the battery box cover and secure the batteries in place with two lengths of 1/2-inch tubular nylon webbing.

(49) Run the nylon webbing over the batteries down through the battery box and under the air tanks.

Figure 2-12. Truck prepared (Continued)

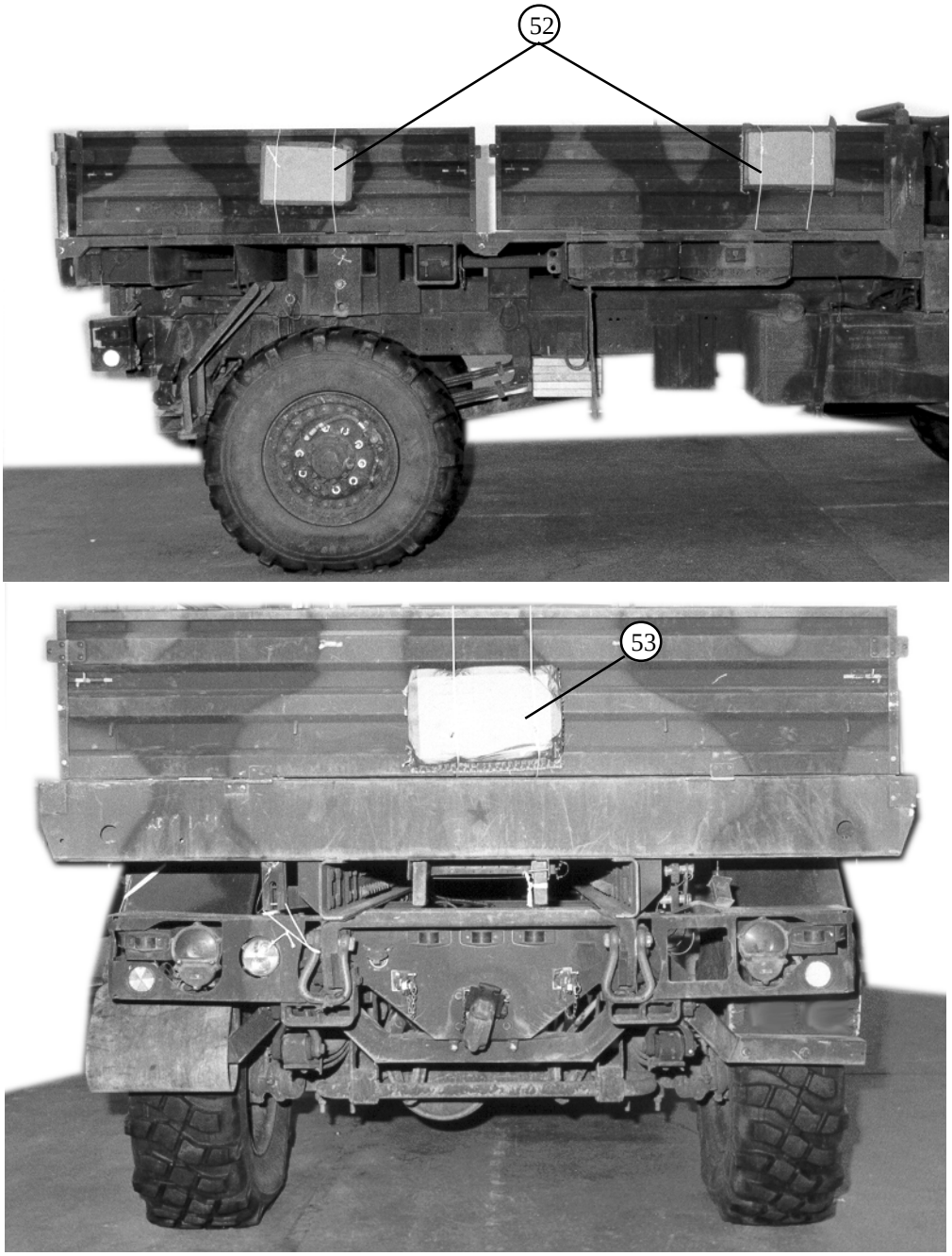




(50) Replace the cover. Route two 15-foot lashings around the main frame, under the battery box, between the air tanks. Ensure hoses are not crimped.

(51) Secure with D-ring and loadbinder on top of battery box. Pad with felt or cellulose wadding.

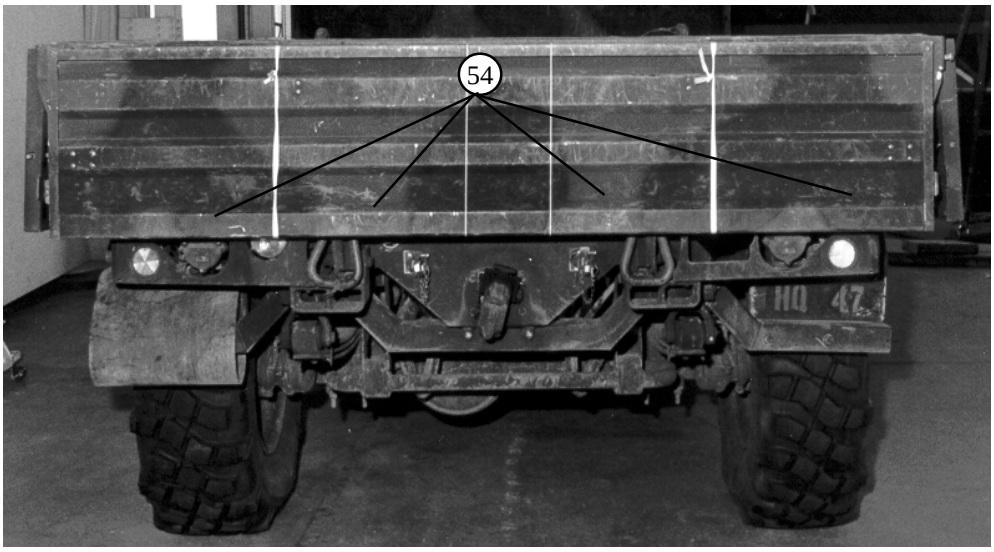
Figure 2-12. Truck prepared (Continued)

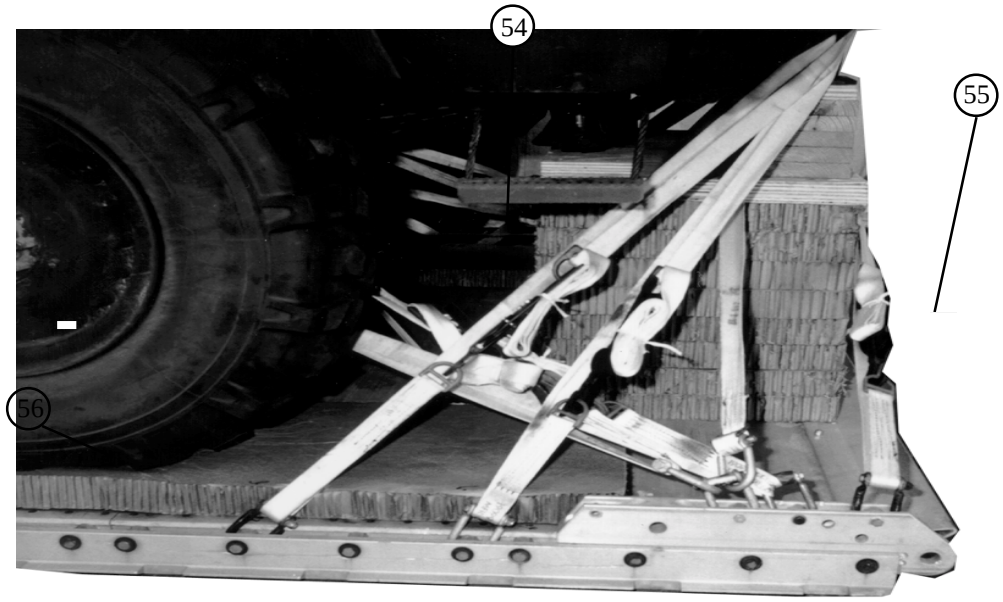


(52) Raise the side panels and place an 11- by 16-inch piece of honeycomb on each contact point. Position the pieces on the front panels where they will come in contact with the fuel tank and battery box. Place the pieces on the rear panels where they will come in contact with the tires. Secure the honeycomb in place with type III nylon cord.

(53) Raise the tailgate and place an 11- by 16-inch piece of honeycomb on the center of the tailgate. Secure the honeycomb in place with type III nylon cord..

Figure 2-12. Truck prepared (Continued)





(54) Secure the side panels and tailgate down using 1/2-inch tubular nylon webbing. Tie to convenient locations on the truck.

(55) Using 1/2-inch tubular nylon webbing, tie the corners of the rear side panels and tailgate together. Tie the front of the forward side to convenient locations on the truck.

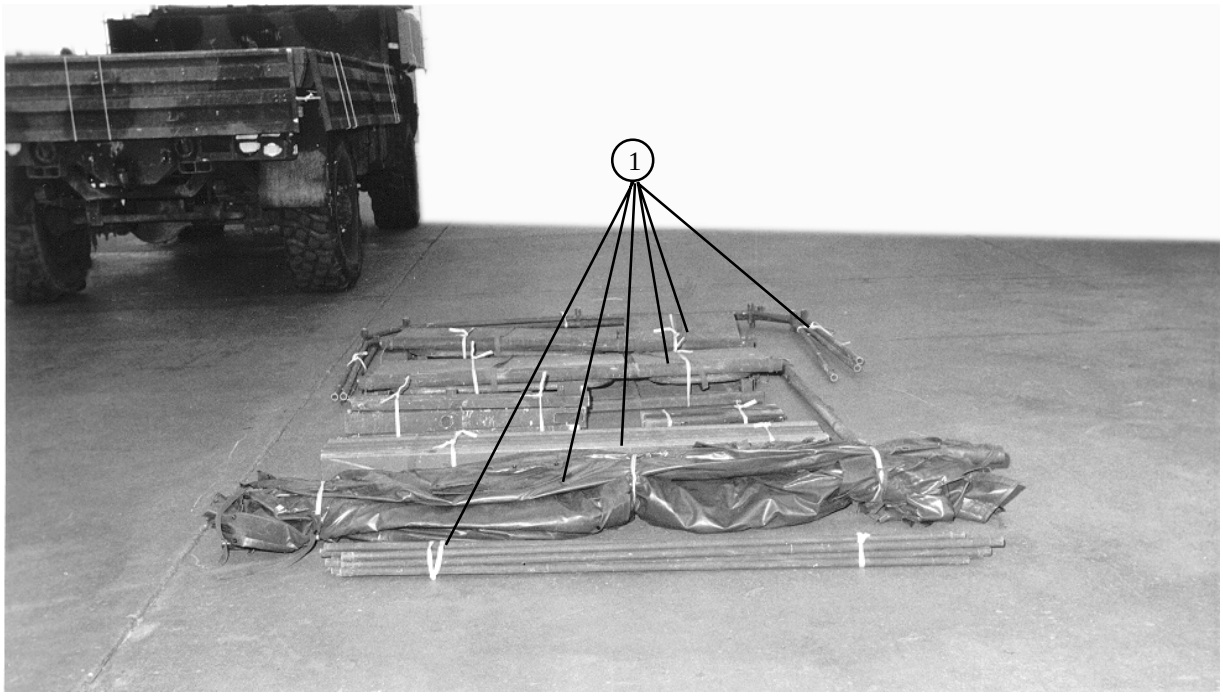
(56) Tie the mud flaps up with type III nylon cord.

Note: Steps 54 and 55 ties must be secured. No slippage of the ties is allowed. If the ties are not secure, damage may occur.

Figure 2-12. Truck prepared (Continued)

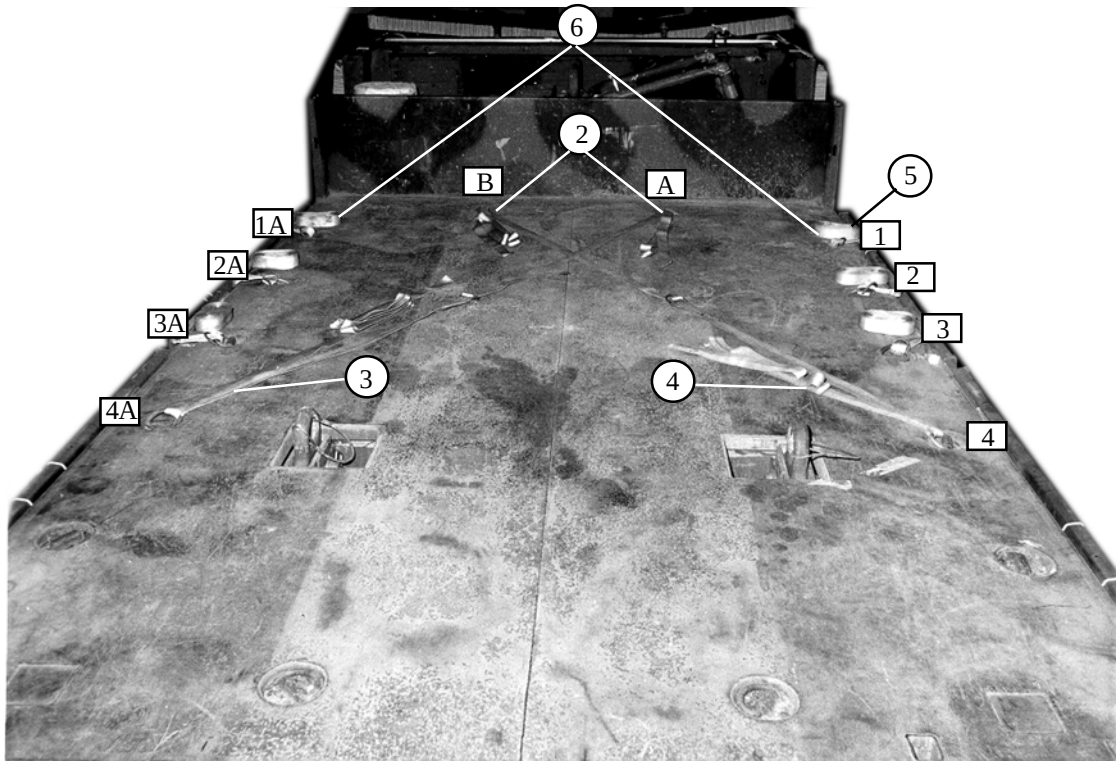
2-6. Stowing Basic Load

Basic accompanying load consists of the roof, spare tire, tire strap, davit, cargo/troop carrier cover, bows, cargo/troop carrier cover poles, bed stakes, seat bars, seats and side rails. Stow the vehicle parts as shown in *Figure 2-13.*



(1) Tie each like item together using 1/2-inch tubular nylon webbing, except the seats. They will be tied into two sets of two seats each.

Figure 2-13. Basic load stowed



(2) Starting at the front of the truck bed, label the right side truck bed tiedown rings 1 through 4 and the left side 1A through 4A. Label the front center truck rings as A and B.

(3) Route a 30-foot lashing from bed ring A to 4A .

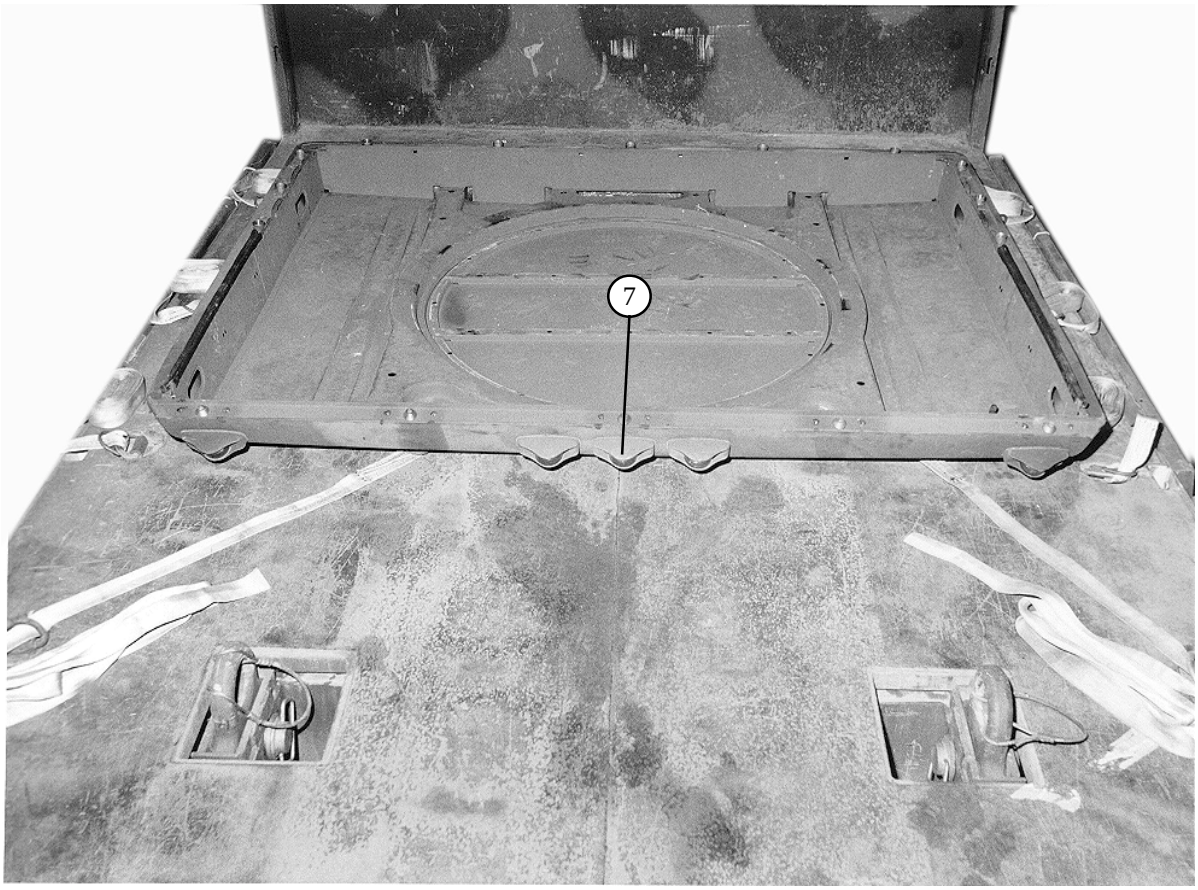
(4) Route a 30-foot lashing from bed ring B to 4 .

(5) Route a 15-foot lashing through the truck bed tiedown ring 1, and through it's own D-ring. Lay it to the vehicle side or roll it up and lay it to the side.

(6) Repeat for truck bed tiedown rings 2, 3, 1A, 2A and 3A.

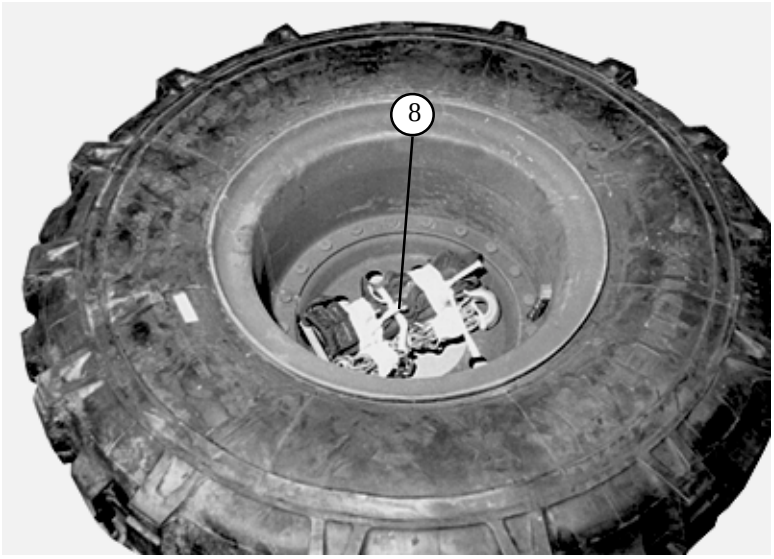
Figure 2-13. Basic load stowed (Continued)

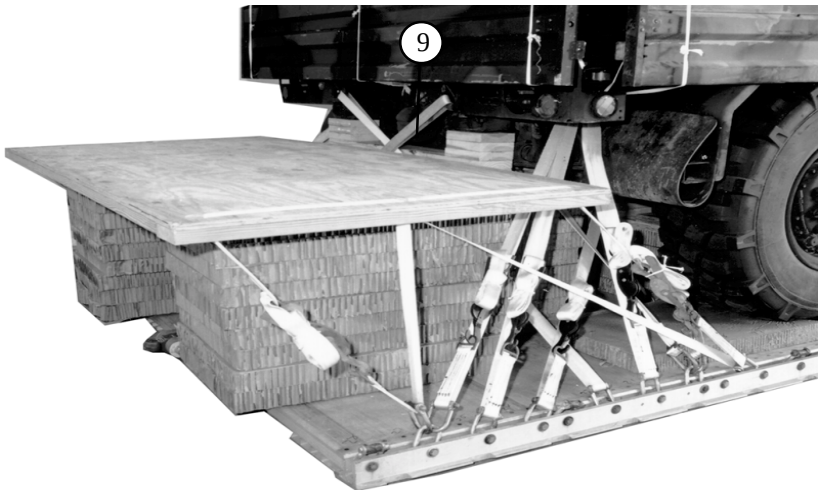
NOTE: Before positioning roof, make sure that all tiedown rings are laying to the outside of the truck bed.



(7) Position the roof upside down and centered between truck bed tiedown rings 1, 2, 3, 1A, 2A, and 3A, with the lights facing the rear of the vehicle.

Figure 2-13. Basic load stowed (Continued)

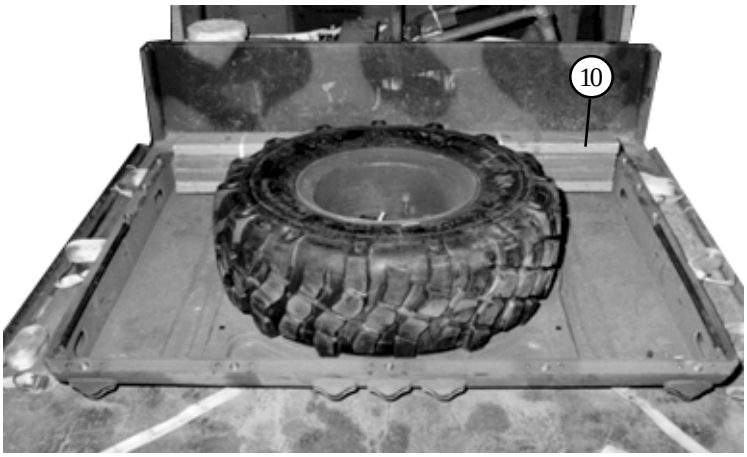


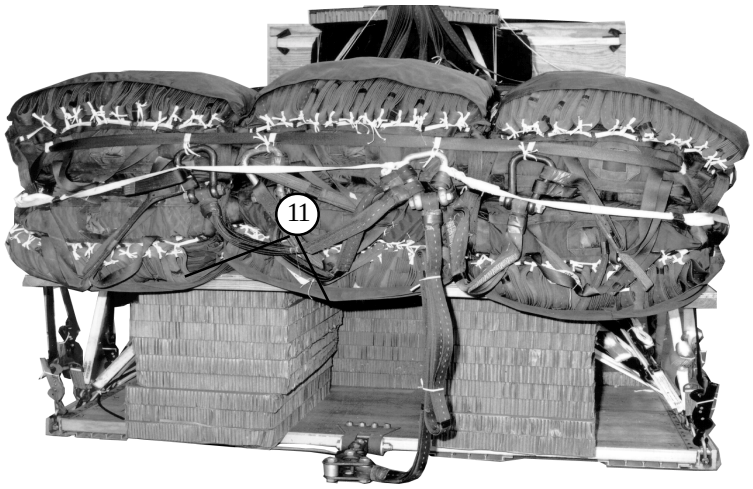


(8) Roll and tape the tire strap. Secure it in the spare tire using 1/2-inch tubular nylon webbing.

(9) Position the spare tire in the center of the roof.

Figure 2-13. Basic load stowed (Continued)

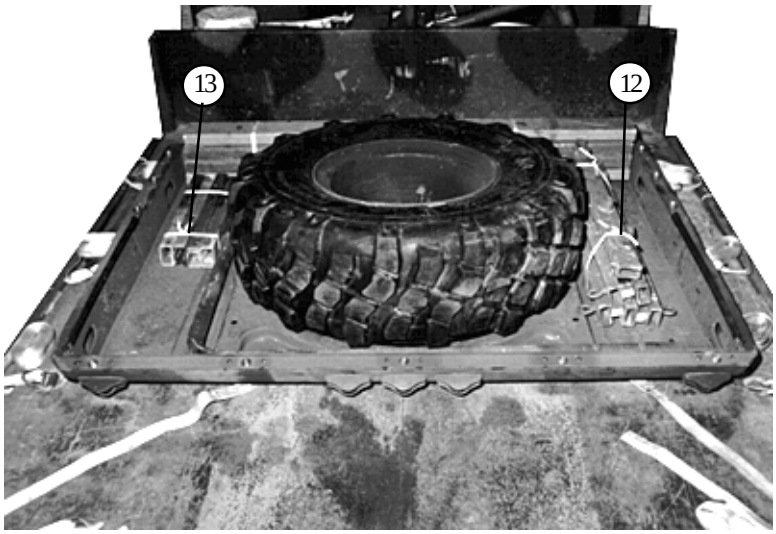




(10) Position the side rails inside the roof in front of the spare tire.

(11) Position the davit to the rear of the spare tire.

Figure 2-13. Basic load stowed (Continued)

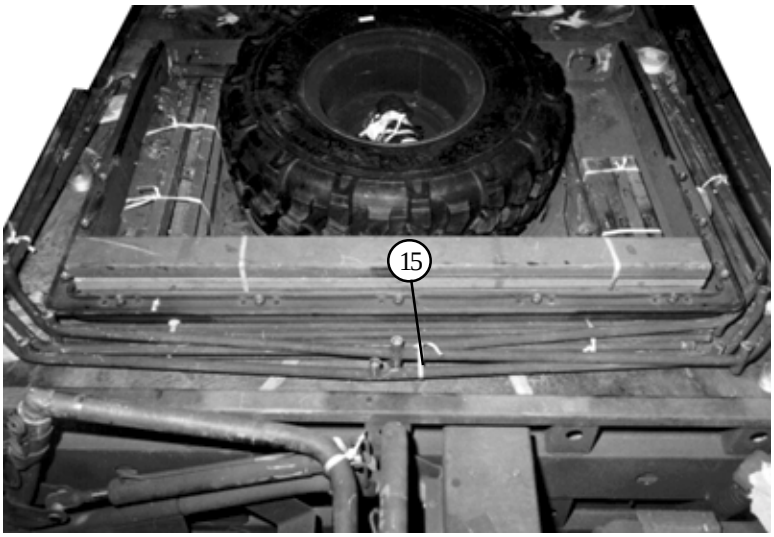


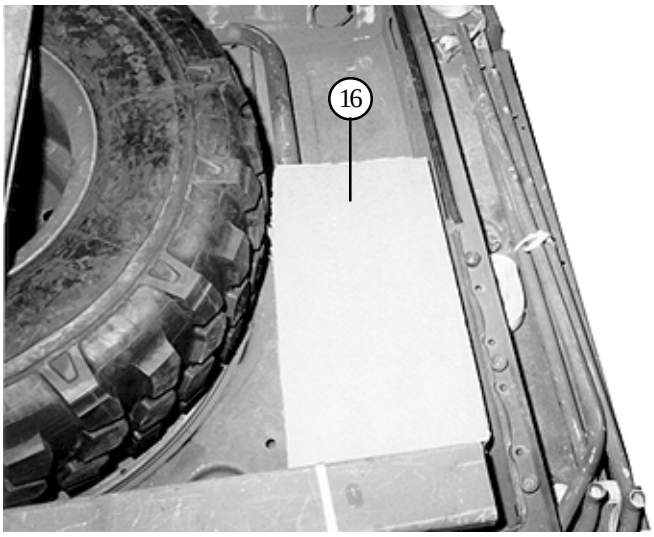
(12) Place the seat bars inside the roof and to the right of the spare tire.

(13) Place the bed stakes inside the roof and to the left of the spare tire.

(14) Place the cargo/troop carrier cover poles in the pole holder in the front of the truck bed. (Not shown)

Figure 2-13. Basic load stowed (Continued)

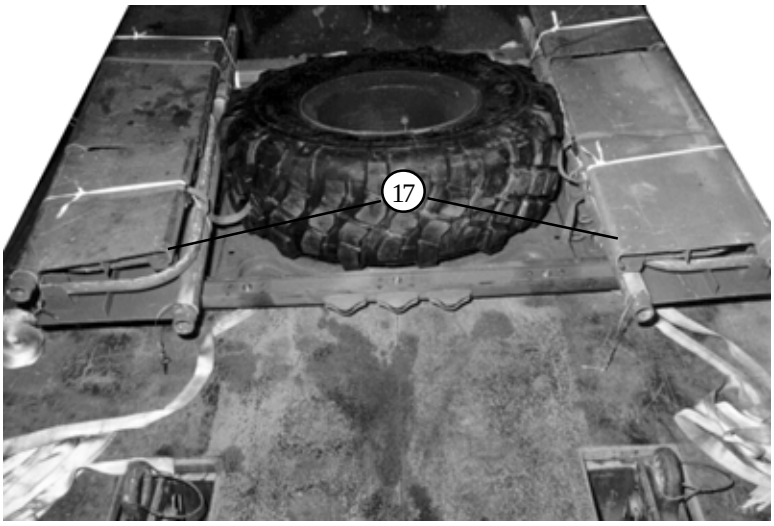


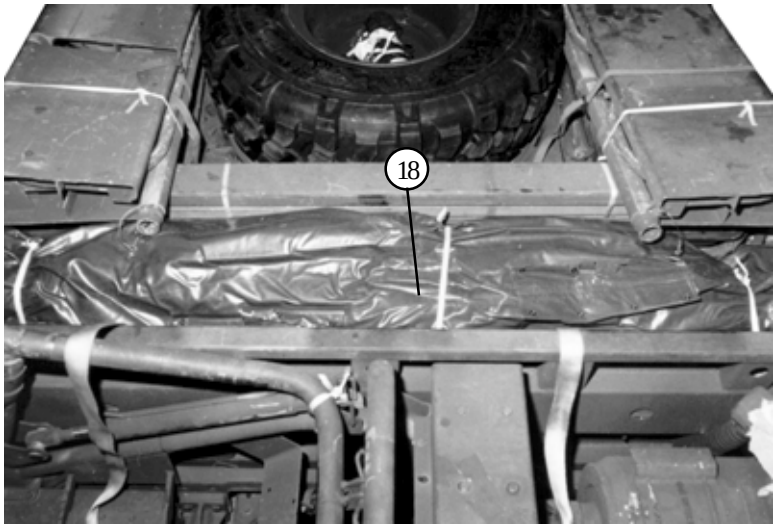


(15) Position the bows in front and around the roof.

(16) Position two pieces of honeycomb on the bed stakes to create a level surface.

Figure 2-13. Basic load stowed (Continued)

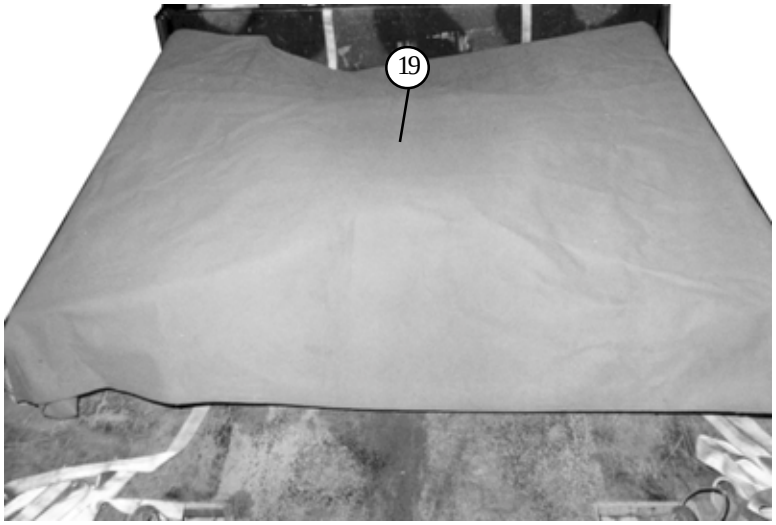


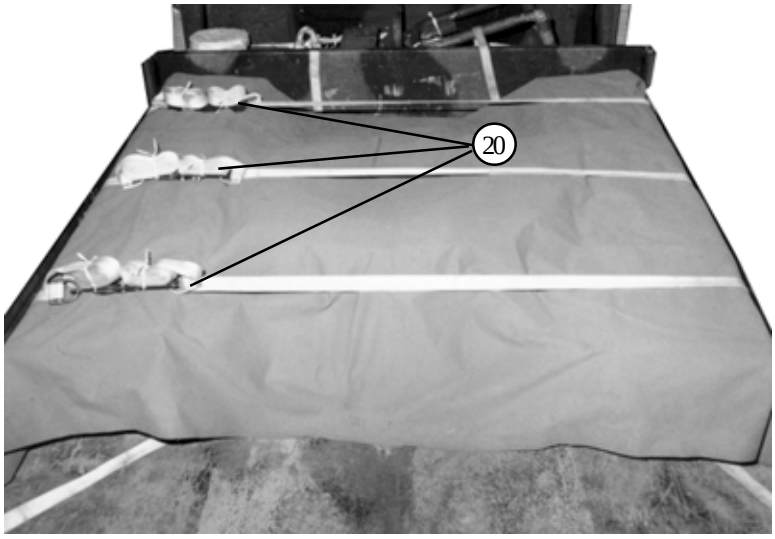


(17) Position one set of the seats to the left side and one set to the right side of the spare tire.

(18) Position the cargo/troop carrier cover to the front outside of the roof.

Figure 2-13. Basic load stowed (Continued)

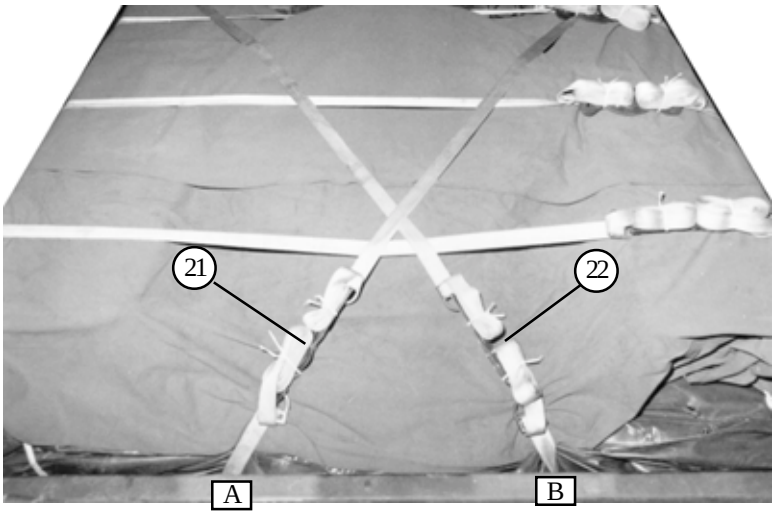




(19) Position the canvas over the basic load.

(20) Secure the lashings on top of the seats on the left side, lashing 1 to 1A, 2 to 2A, and 3 to 3A over the load. (Ensure the bows are outside the lashings to prevent bending.)

Figure 2-13. Basic load stowed (Continued)



(21) Secure the 30-foot lashing routed from truck bed center tiedown rings A to 4A.

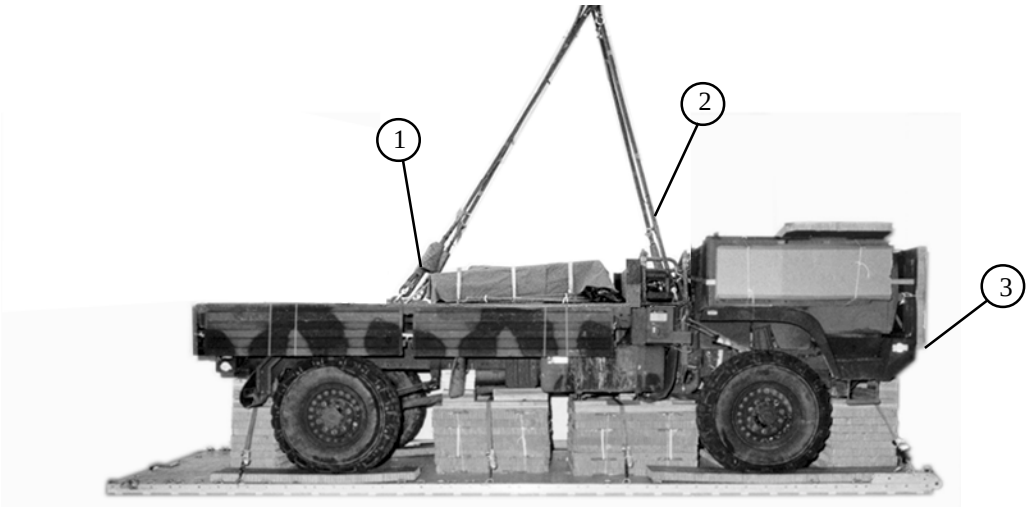
(22) Secure the 30-foot lashing routed from truck bed center tiedown rings B to 4.

(23) Secure the bows to 2 and 2A with 1/2-inch tubular nylon webbing. (Not shown).

Figure 2-13. Basic load stowed (Continued)

2-7. Lifting and Positioning Truck

Install lifting sling on the M1081 truck and position the truck on the platform as shown in *Figure 2-14.*

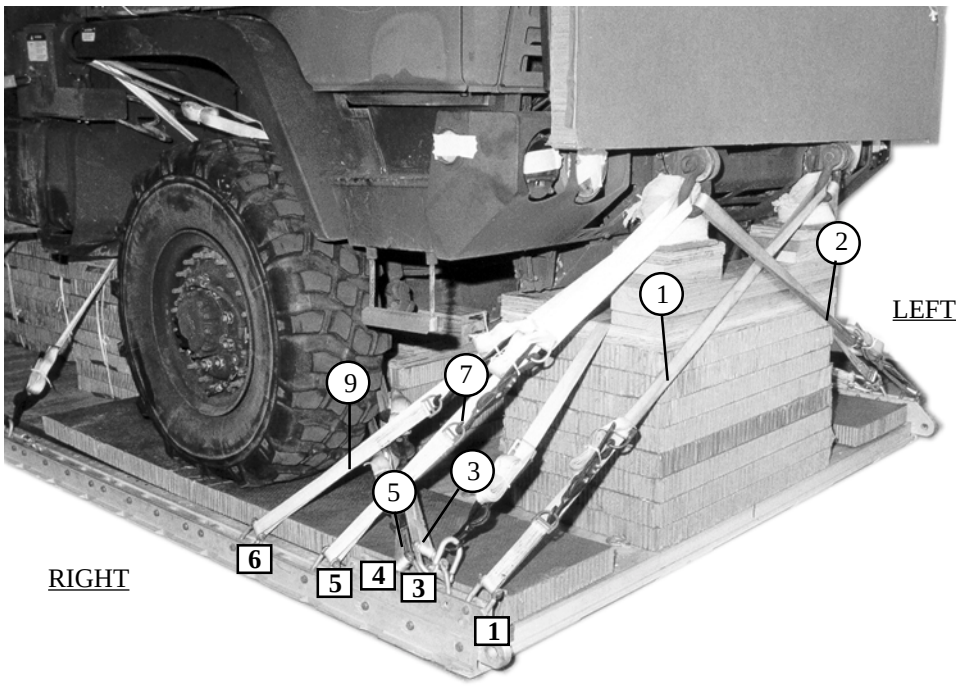


1	Attach a screw pin clevis to each rear lifting point. Pass a 3-foot (4-loop), type XXVI nylon webbing sling through each screw pin clevis. Attach both running ends of the 3-foot (4-loop), type XXVI nylon webbing sling to a large clevis 11-foot (4-loop), type XXVI nylon webbing sling to each of the large clevises.
2	Attach a 12-foot (4-loop), type XXVI nylon webbing sling to each of the truck's front lifting points with a screw pin clevis.
3	Position the truck on the platform so that the front of the truck is flush with the front edge of the platform.

Figure 2-14. Lifting slings installed and truck positioned on the platform

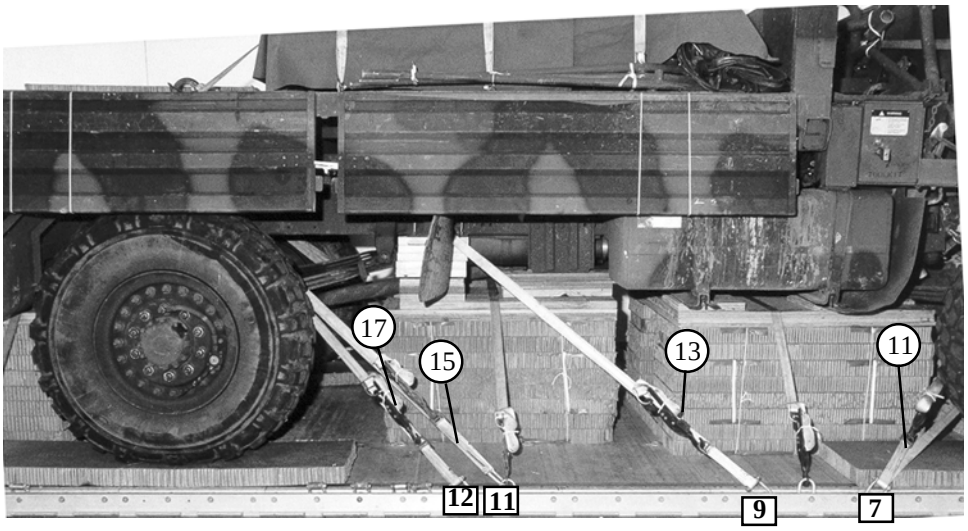
2-8. Installing Lashings

Lash the truck to the platform as shown in *Figure 2-15.*
Install the lashings according to FM 10-500-2/TO 13C7-1-5.



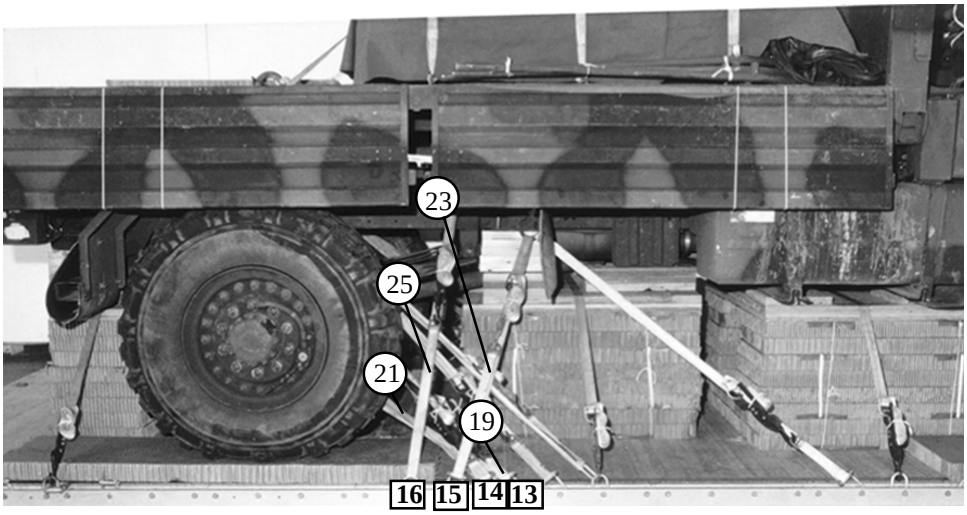
Lashing Number	Clevis Number	Instructions
1	**1**	**Route a 15-foot lashing through the front shackle on the left side.**
2	**1a**	**Route a 15-foot lashing through the front shackle on the right side.**
3	**3**	**Route a 15-foot lashing around the front axle, right side.**
4	**3a**	**Route a 15-foot lashing around the front axle, left side.**
5	**4**	**Route a 15-foot lashing around the front axle, right side.**
6	**4a**	**Route a 15-foot lashing around the front axle, left side.**
7	**5**	**Route a 15-foot lashing through the front shackle on the right side.**
8	**5a**	**Route a 15-foot lashing through the front shackle on the left side.**
9	**6**	**Route a 15-foot lashing through the front shackle on the right side.**
10	**6a**	**Route a 15-foot lashing through the front shackle on the left side.**

Figure 2-15. Lashings installed



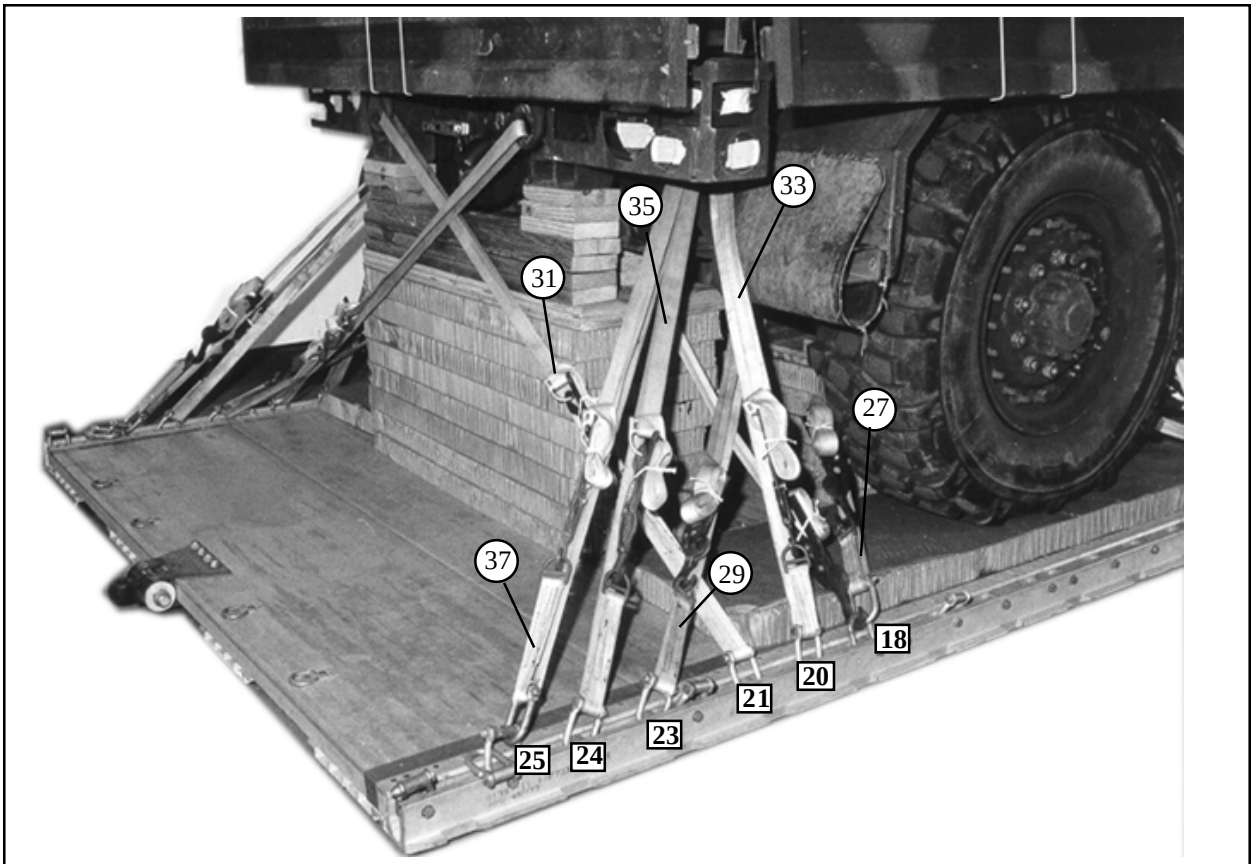
Lashing Number	Clevis Number	Instructions
11	7	Route a 15-foot lashing around the front axle, right side.
12	7a	Route a 15-foot lashing around the front axle, left side.
13	9	Route a 15-foot lashing through tiedown point #1 on the right side.
14	9a	Route a 15-foot lashing through tiedown point #1 on the left side.
15	11	Route a 15-foot lashing through tiedown point #3 on the right side.
16	11a	Route a 15-foot lashing through tiedown point #3 on the left side.
17	12	Route a 15-foot lashing through tiedown point #3 on the right side.
18	12a	Route a 15-foot lashing through tiedown point #3 on the left side.

Figure 2-15. Lashings installed (Continued)



Lashing Number	Clevis Number	Instructions
19	13	Route a 15-foot lashing around the rear axle, right side.
20	13a	Route a 15-foot lashing around the rear axle, left side.
21	14	Route a 15-foot lashing around the rear axle, right side.
22	14a	Route a 15-foot lashing around the rear axle, left side.
23	15	Route a 15-foot lashing through tiedown point #1 on the right side.
24	15a	Route a 15-foot lashing through tiedown point #1 on the left side.
25	16	Route a 15-foot lashing through tiedown point #2 on the right side.
26	16a	Route a 15-foot lashing through tiedown point #2 on the left side.

Figure 2-15. Lashings installed (Continued)

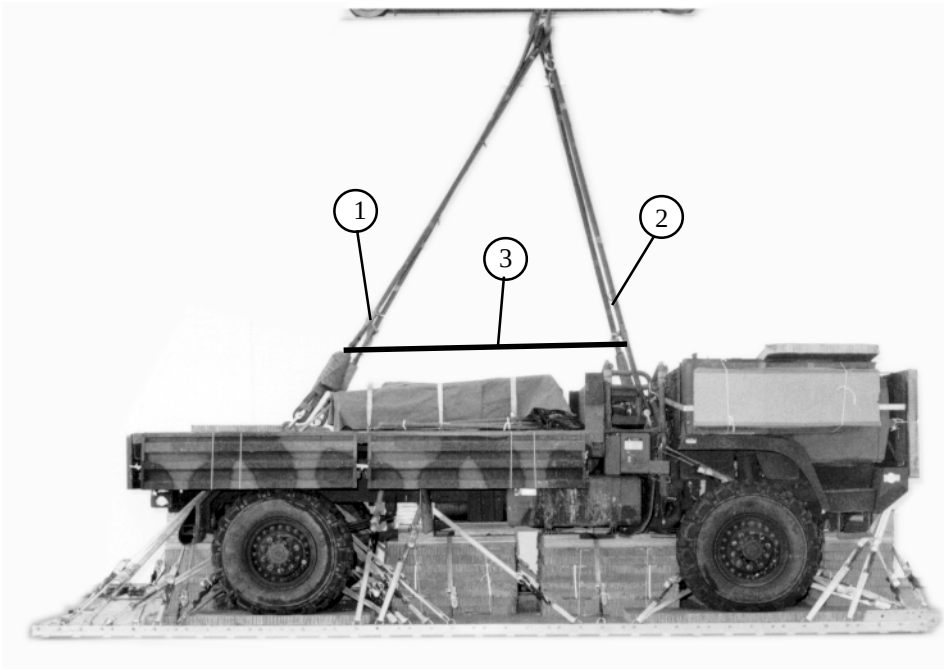


Lashing Number	Clevis Number	Instructions
27	18	Route a 15-foot lashing around the rear axle on the right side.
28	18a	Route a 15-foot lashing around the rear axle on the left side.
29	23	Route a 15-foot lashing around the rear axle stabilizer bar on the right side.
30	23a	Route a 15-foot lashing around the rear axle stabilizer bar on the left side.
31	21	Route a 15-foot lashing through the rear shackle on the left side.
32	21a	Route a 15-foot lashing through the rear shackle on the right side.
33	20	Route a 15-foot lashing through tiedown point #4 on the right side.
34	20a	Route a 15-foot lashing through tiedown point #4 on the right side.
35	24	Route a 15-foot lashing through tiedown point #4 on the right side.
36	24a	Route a 15-foot lashing through tiedown point #4 on the left side.
37	25	Route a 15-foot lashing through tiedown point #4 on the right side.
38	25a	Route a 15-foot lashing through tiedown point #4 on the left side.

Figure 2-15. Lashings installed (Continued)

2-9. Installing and Safetying Suspension Slings

Install and safety two 11-foot (4-loop), two 3-foot (4-loop), type XXVI nylon slings and two 12-foot (4-loop), type XXVI nylon slings as shown in *Figure 2-16.*



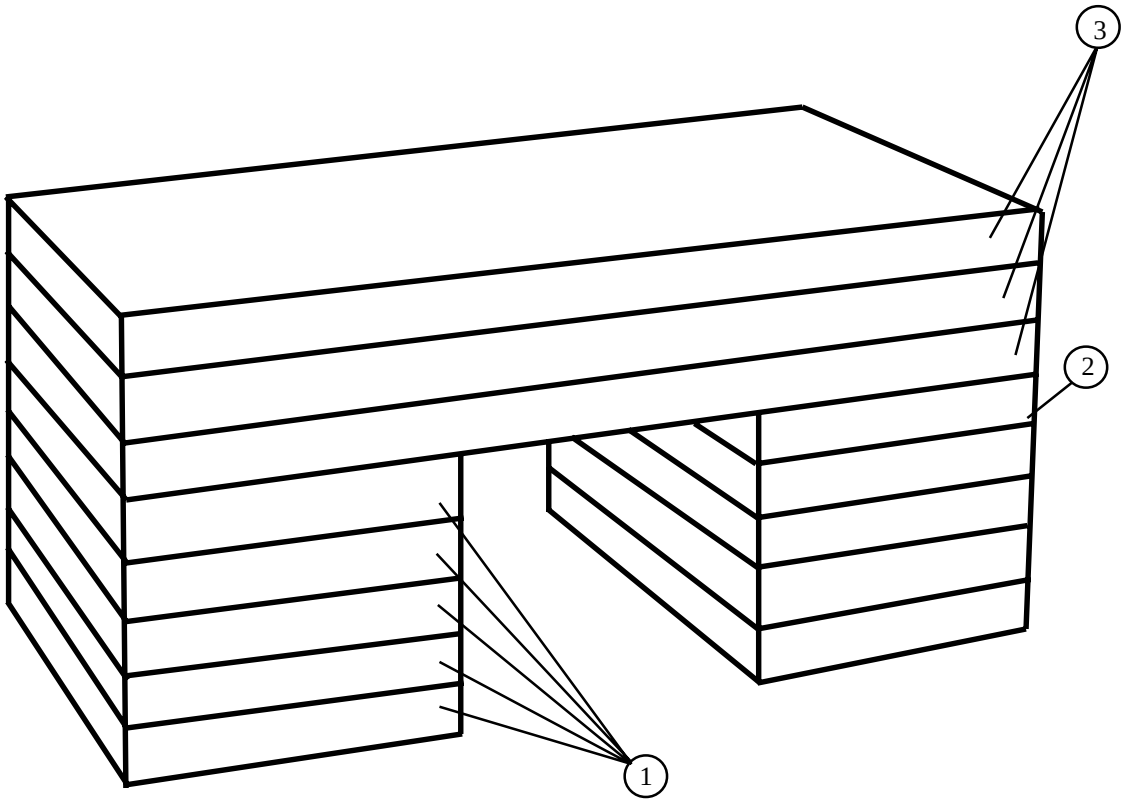
1. Attach an 11-foot (4-loop), type XXVI sling to the rear lifting points with a screw pin clevis. Attach a 3-foot (4-loop), type XXVI sling to each of the rear slings with a 5 1/2-inch two-point link. Wrap with felt and tape the links.
2. Attach a 12-foot (4-loop), type XXVI sling to each of the front lifting points with a screw pin clevis.
3. Raise the slings and install the deadman's tie according to FM 10-500-2/TO 13C7-1-5.

Figure 2-16. Suspension slings installed and safetied

2-10. Building and Positioning the Parachute Stowage Platform

Build and position the parachute stowage platform as shown in *Figure 2-17.*

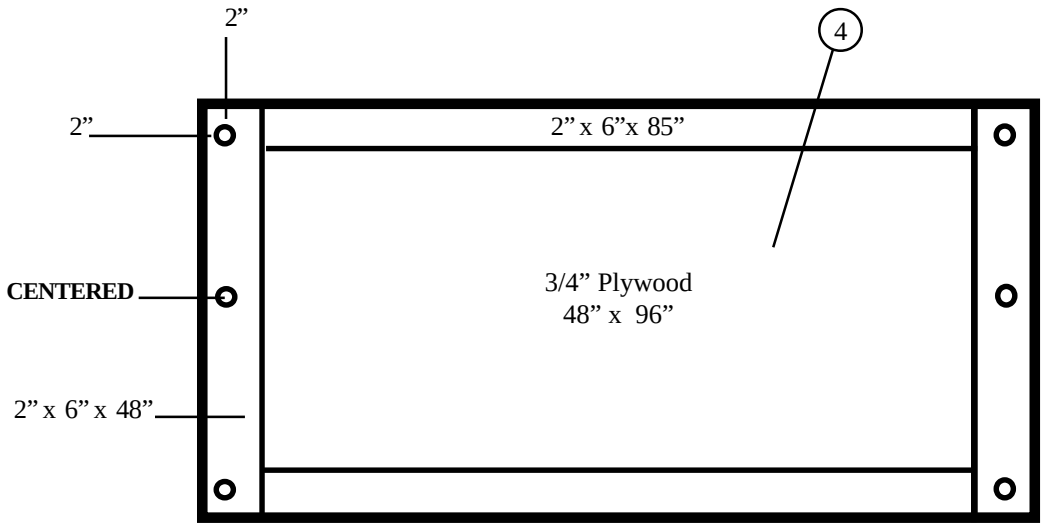
Note: This drawing is not drawn to scale.

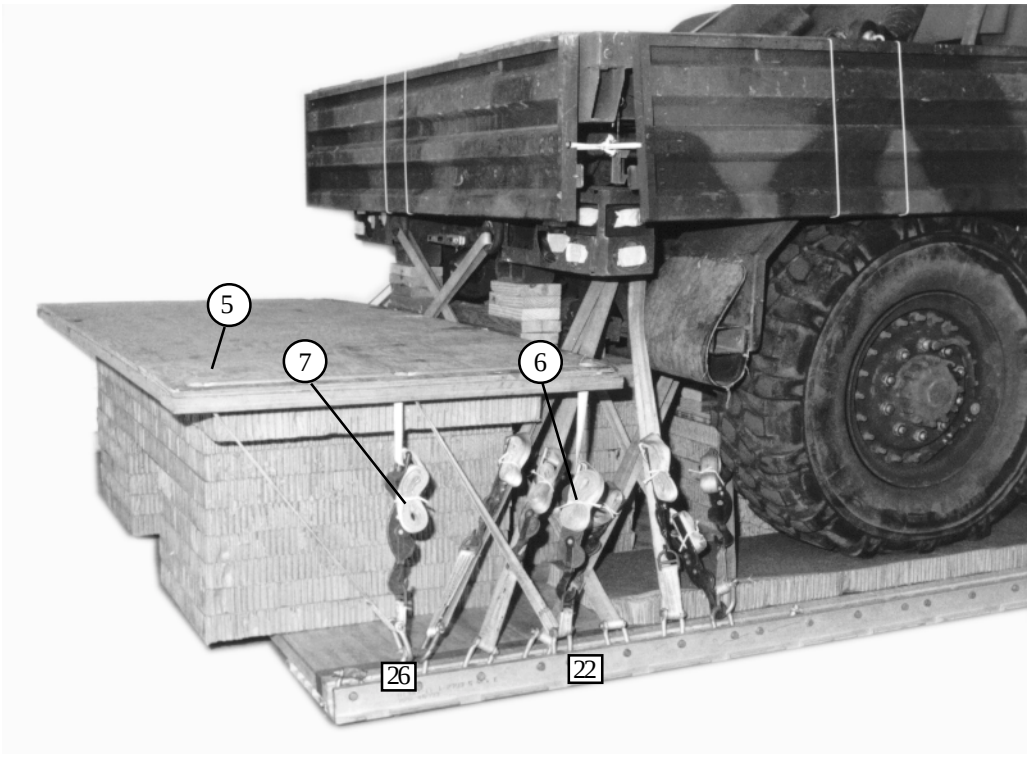


1. Cut ten pieces of 24- by 36-inch honeycomb. Glue five layers of honeycomb together forming a stack. Repeat forming the second stack.
2. Cut three pieces of 36- by 70-inch honeycomb. Glue honeycomb together forming a stack.
3. Glue one 24- by 36-inch honeycomb stack to the right side and 22 inches apart from the other honeycomb stack on the left side of the 36- by 70-inch honeycomb stack.

Figure 2-17. Cargo stowage platform positioned

Note: This drawing is not drawn to scale.





(4) Construct a stowage platform as shown, using one sheet of 3/4-inch plywood. Glue two pieces of 36- by 84-inch honeycomb inside the stowage platform.

(5) Center the stowage platform on the 36- by 70-inch honeycomb stack and flush against the lashings.

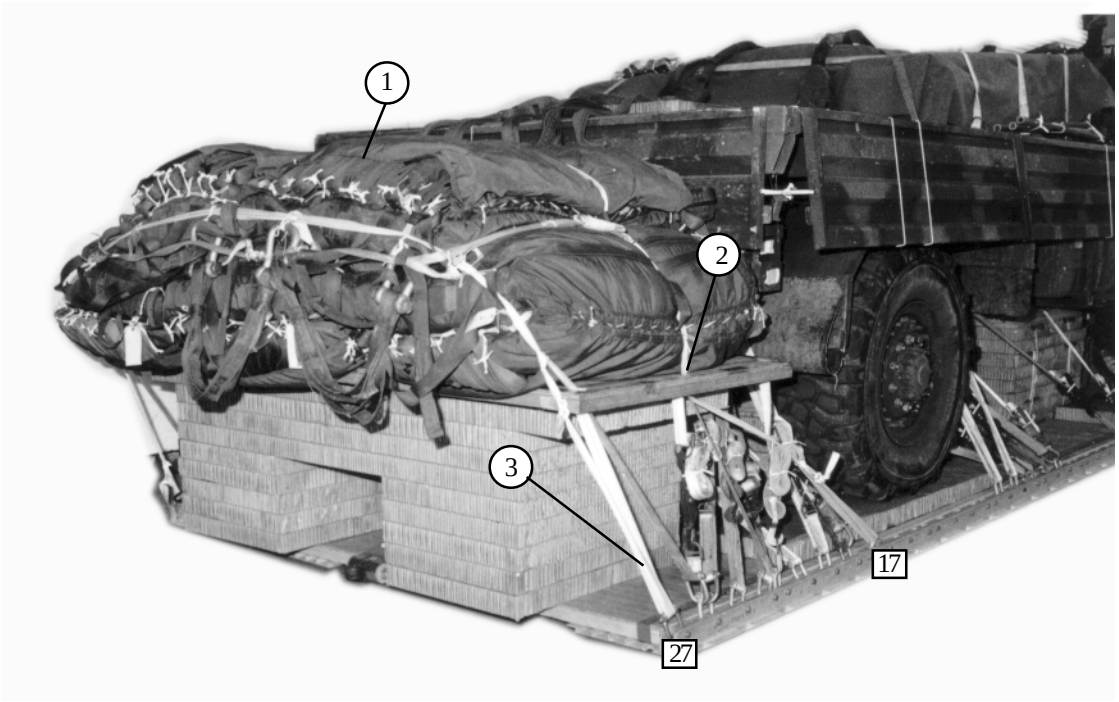
(6) Route a lashing through clevis 22, through the front right hole in the stowage platform, and through the center right hole. Secure with a loadbinder. Repeat using clevis 22A for the left side.

(7) Route a lashing through clevis 26, through the center right hole in the stowage platform, and through the rear right hole. Secure with a loadbinder. Repeat using clevis 26A for the left side.

Figure 2-17. Cargo stowage platform positioned (Continued)

2-11. Stowing Cargo Parachutes

Stow five G-11 cargo parachutes as shown in *Figure 2-18.*

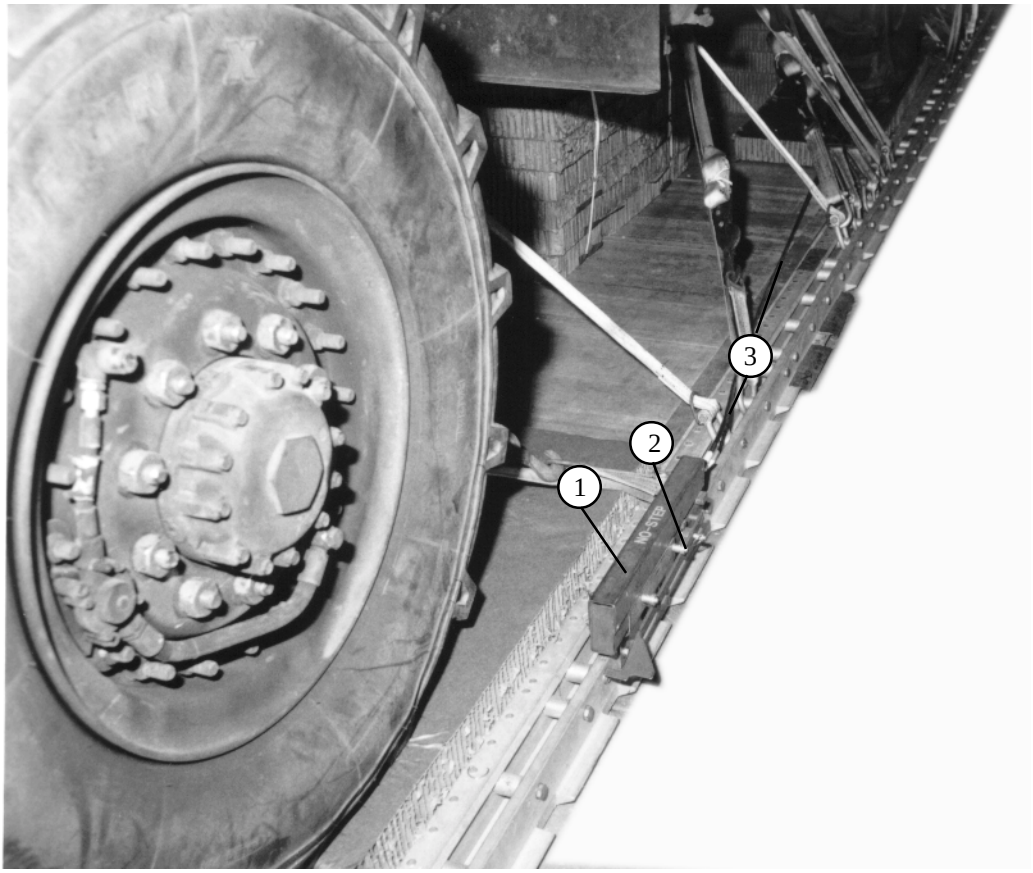


1. Prepare, cluster and place five G-11 parachutes on the parachute stowage platform according to FM 10-500-2/TO 13C7-1-5. Install parachute restraints according to FM 10-500-2/TO 13C7-1-5.
2. Secure the aft restraint to clevis 17 right side. Repeat for the left side using clevis 17A.
3. Secure the rear restraint to clevis 27 right side. Repeat for the left side using clevis 27A.

Figure 2-18. Cargo parachutes stowed

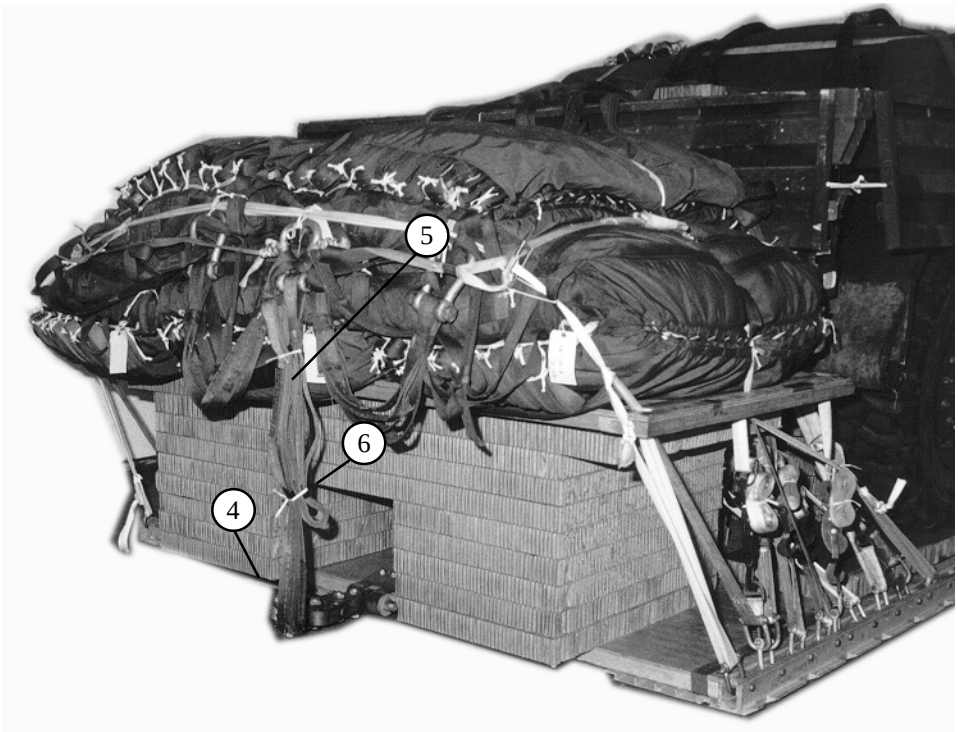
2-12. Installing Extraction System

Install the components of the extraction force transfer coupling (EFTC) according to FM 10-500-2/TO 13C7-1-5 and as shown in *Figure 2-19.*



1. Install the EFTC according to FM 10-500-2/TO 13C7-1-5.
2. Install the EFTC mounting brackets in the rear mounting holes in the left platform rail.
3. Attach a 20-foot release cable to the actuator. Install the actuator in the EFTC mounting bracket.

Figure 2-19. Extraction system installed



(4) Safety the release cable with type I, 1/4-inch cotton webbing to the platform bushing or deck-rings.

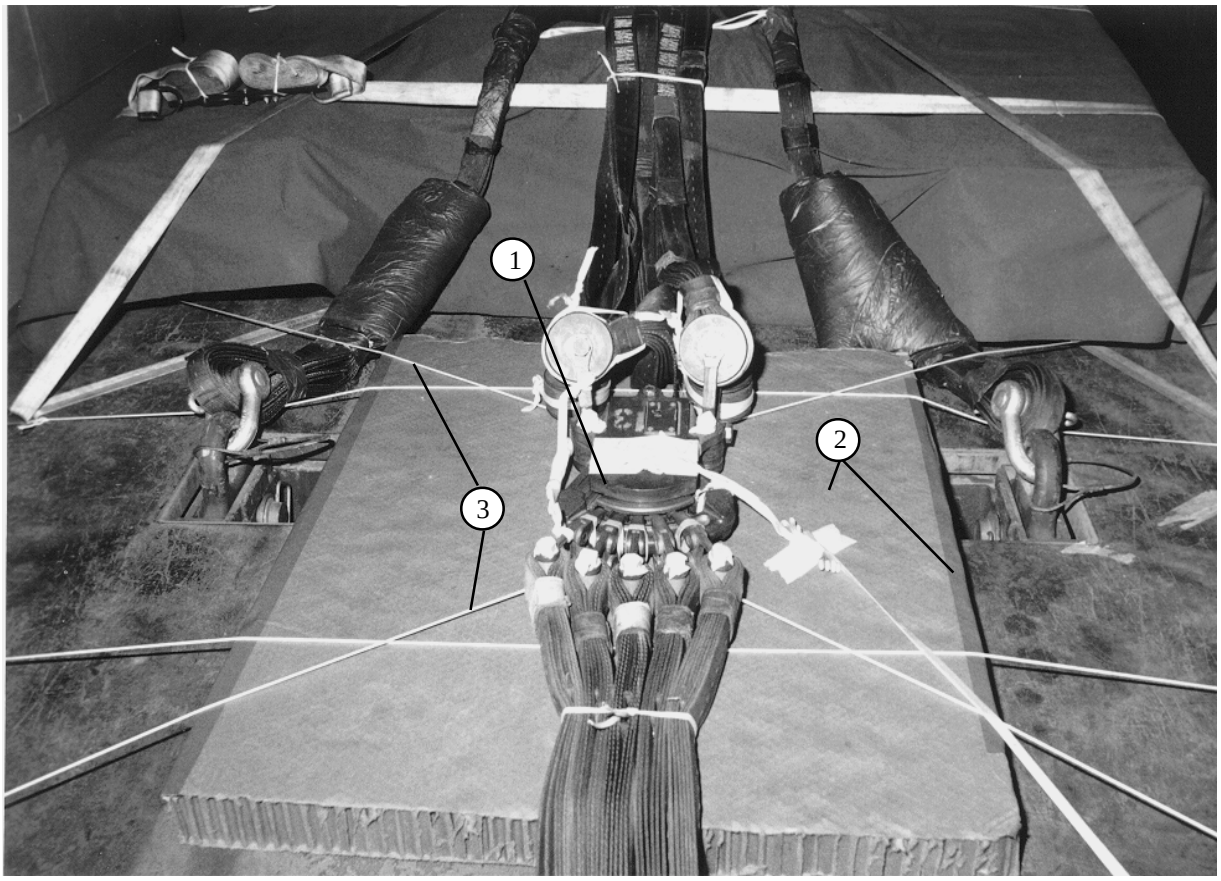
(5) Attach a 9-foot (2-loop), type XXXVI nylon sling, for use as a deployment line.

(6) S-fold and secure the folds with type I, 1/4-inch cotton webbing according to FM 10-500-2/TO 13C7-1-5.

Figure 2-19. Extraction system installed (Continued)

2-13. Installing Release System

Install an M-2 cargo parachute release according to FM 10-500-2/TO 13C7-1-5 and as shown in *Figure 2-20.*



1. Prepare an M-2 parachute release according to FM 10-500-2/TO 13C7-1-5.
2. Cut and tape the edges of a 45- by 36-inch piece of honeycomb. Place it on the top of the truck's cargo bed between the rear lifting points. Secure it using type III nylon cord tied to convenient places on the load.
3. Position and safety the M-2 parachute release on top of the honeycomb. Secure it with type III nylon cord to convenient points on the load.
4. Fold and tie any slack in the suspension slings with type III nylon cord. (Not shown)

Figure 2-20. Parachute release installed

2-14. Installing Provisions for Emergency Restraints

Select and install provisions for emergency restraints according to the emergency restraint requirements table found in FM 10-500-2/TO 13C7-1-5.

2-15. Placing Extraction Parachute

Select the extraction parachute and extraction parachute line needed using the extraction parachute and extraction line requirements table found in FM 10-500-2/TO 13C7-1-5.

2-16. Marking the Rigged Load

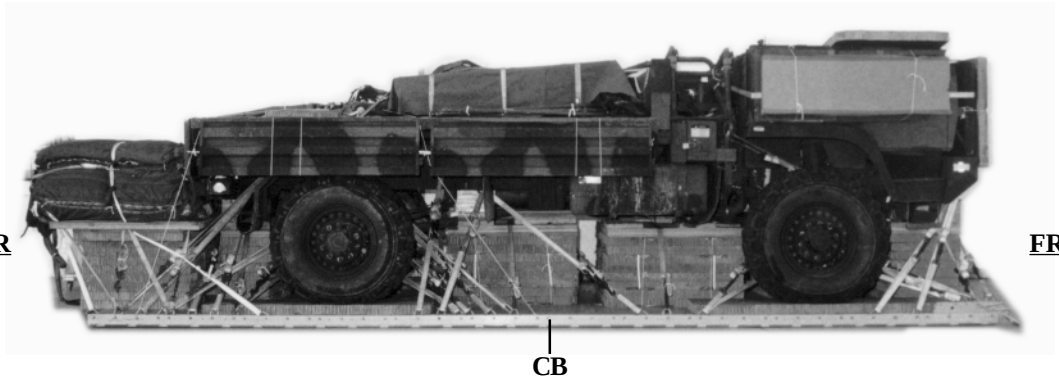
Mark the rigged load according to FM 10-500-2/TO 13C7-1-5 and as shown in *Figure 2-21.* Complete Shipper's Declaration for Dangerous Goods and affix to load. If the load varies from the one shown, the weight, height, CB, tip-off curve and parachute requirements must be recomputed.

2-17. Equipment Required

Use the equipment listed in *Table 2-2* to rig this load.

CAUTION

Make the final rigger inspection required by FM 10-500-2/TO 13C7-1-5 before the load leaves the rigging site.



RIGGED LOAD DATA

Weight: Load shown		**23,181 pounds**
Minimum weight:		**22,500 pounds**
Maximum weight:		**23,000 pounds**
Height:		**93 inches**
Width:		**108 inches**
Length:		**315 inches**
Overhang:	**Front:**	**0 inch**
	Rear:	**27 inches**
Center of Balance: (from the front edge of the platform)		**135 inches**
Extraction System		**EFTC**

Figure 2-21. M1081, 2 1/2-ton cargo truck rigged for low-velocity airdrop

Table 2-2. Equipment required for rigging the M1081, 2 1/2-ton cargo truck for low-velocity airdrop on a type V platform

National Stock Number	Item	Quantity
8040-00-273-8713	Adhesive, paste, 1-gal	As required
N/A	Bolts, (washers and nuts), 1/2- by 10-in	4
1670-01-035-6054	Bridle, extraction line bag (Use with extraction line bag)	1
4030-00-432-2516	Clevis, screw pin	4
4030-00-090-5354	Clevis, suspension, 1-in (large)	3
8305-00-242-3593	Cloth, cotton duck, 60-in	As required
4020-00-240-2146	Cord, nylon, type III, 550-lb	As required
1670-00-434-5787	Coupling, airdrop extraction force transfer cable, 20-ft	1
1670-00-360-0328	Cover, clevis, large	3
8135-00-664-6958	Cushioning material, packaging, (cellulose wadding)	As required
8305-00-958-3685	Felt, 1/2-in thick	As required
1670-01-183-2678	Leaf, extraction line, (line bag)	2
	Line, extraction line, type XXVI nylon webbing:	
1670-01-064-4452	60-ft (1-loop), drogue	1
1670-01-062-6313	60-ft (3-loop), type XXVI nylon webbing (for C-130)	1
1670-01-107-7651	140-ft (3-loop), type XXVI nylon webbing (for C-5, C-17, and C-141)	1
	Truck preparation	
	Lumber:	
5510-00-220-6146	2- by 4- by 6	2
5510-00-220-6148	2- by 6- by 6	3
	2- by 6- by 13	1
5510-00-220-6274	4- by 4- by 6	2
	4- by 4- by 15	2
5530-00-128-4981	Plywood, 3/4-in:	
	10- by 10-in	1

Table 2-2. Equipment required for rigging the M1081, 2 1/2-ton cargo truck for low-velocity airdrop on type V platform (continued)

National Stock Number	Item	Quantity
	Link assembly:	
1670-01-783-5988	Type IV	6
	Two-point:	1
5303-00-435-8994	Bolt, 1-in diam, 4-in long	(2)
5310-00-232-5161	Nut, 1-in, hexagonal	(2)
1670-00-003-3454	Plate, side, 5 1/2-in	(2)
1670-00-007-3414	Spacer, large	(2)
1670-00-006-2752	Link, suspension tandem	2
	Lumber:	
1670-00-162-4981	2- by 6- by 48-in	2
	2- by 6- by 85-in	2
	Load spreader for honeycomb stack 1:	
	Lumber:	
5305-00-435-8994	2- by 8- by 12-in	2
	2- by 8- by 43-in	2
	Plywood, 3/4-in:	
1670-00-003-1954	7 1/2- by 12-in	2
5510-00-128-4981	14- by 7-in	2
5365-00-007-3414	24- by 43-in	2

Table 2-2. Equipment required for rigging the M1081, 2 1/2-ton cargo truck for low-velocity airdrop on a type V platform (continued)

National Stock Number	Item	Quantity
	Load spreader for honeycomb stack 2:	
5510-00-220-6148	Lumber, 2- by 6- by 18-in	2
5530-00-128-4981	Plywood, 3/4-in:	
	5 1/2- by 18-in	6
	18- by 48-in	2
	Load spreader for honeycomb stack 3:	
5510-00-220-6246	Lumber, 2- by 8- by 26 1/2-in	2
5530-00-129-7777	Plywood, 1/2-in:	
	7 1/2- by 26 1/2-in	1
5510-00-128-4981	Plywood, 3/4-in:	
	6- by 8-in	1
	7 1/2- by 8-in	2
	8- by 16-in	1
	10- by 10-in	1
	12- by 14-in	4
	46- by 48-in	4
	Load spreader for honeycomb stack 4:	
	Lumber:	
5510-00-220-6148	2- by 6- by 21-in	6
	2- by 6- by 48-in	1
5510-00-220-6250	2- by12- by 12-in	6
	2- by 12- by 34- in	2
5510-00-220-6448	Plywood 3/4-in:	
	44- by 48-in	3

Table 2-4. Equipment required for rigging the M1081, 2 1/2-ton cargo truck for low-velocity on type V airdrop platform (continued)

National Stock Number	Item	Quantity
	Load spreader for honeycomb stack 5:	
5510-00-220-6148	Lumber, 2- by 6- by 18-in	2
5530-00-128-4981	Plywood, 3/4-in:	
	5 1/2- by 18-in	6
	18- by 60-in	2
	Load spreader for honeycomb stack 6:	
	Lumber:	
5510-00-220-6148	2- by 6- by 8-in	6
	2- by 6- by 33-in	3
	2- by 6- by 45-in	4
5530-00-128-4981	Plywood, 3/4-in:	
	18- by 48-in	3
	Nail, steel wire, common:	
5315-00-010-4659	8d	As required
5315-00-753-3885	16d	As required
1670-00-753-3928	Pad, energy-dissipating, honeycomb,	
	3- by 36- by 96-in:	39 sheets
	4- by 6-in	1
	12- by 30-in	1
	12- by 31-in	12
	18- by 44-in	24
	18- by 48-in	13
	18- by 60-in	2
	24- by 34-in	4
	36- by 44-in	4
	36- by 80-in	1
	36- by 96-in	10
	43- by 20-in	5
	43- by 30-in	2
	74- by 18-in	2
	96- by 18-in	2

Table 2-4. Equipment required for rigging the M1081, 2 1/2-ton cargo truck for low-velocity airdrop on a type V platform (continued)

National Stock Number	Item	Quantity
	Parachute, cargo:	
1670-01-016-7841	G-11C	5
	Parachute, cargo extraction:	
1670-00-040-8135	28-ft,	1
1670-01-063-3715	15-ft	1
	Platform, AD, type V, 24-ft	1
1670-01-353-8425	Bracket assembly, coupling	(1)
1670-01-162-2372	Clevis, assembly (type V)	(58)
1670-01-353-8424	Extraction bracket assembly	(1)
1670-01-162-2381	Tandem link assembly (Multipurpose link)	(2)
1670-01-097-8817	Release, cargo parachute, M-2	1
	Sling, cargo, airdrop:	
	For deployment line:	
1670-01-062-6304	9-ft (2-loop), type XXVI nylon webbing	1
	For lifting and suspension:	
1670-01-062-6306	3-ft (4-loop), type XXVI nylon webbing	2
1670-01-062-6310	11-ft (2-loop), type XXVI nylon webbing	2
1670-01-062-6307	12-ft (4-loop), type XXVI nylon webbing	2
	For riser extension:	
1670-01-062-6302	20-ft (2-loop), type XXVI nylon webbing	5

Table 2-2. Equipment required for rigging the M1081, 2 1/2-ton cargo truck for low-velocity airdrop on a type V platform (continued)

National Stock Number	Item	Quantity
5340-00-040-8219	Strap, parachute release, multi-cut with 3 knives	2
7510-00-266-5016	Tape, adhesive, 2-in (masking)	As required
7510-00-079-7906	Tape, pressure, 2-in (pressure sentitive)	As required
1670-00-937-0271	Tiedown assembly, 15-ft	79
	Webbing:	
8305-00-268-2411	Cotton, 80-lb	As required
8305-00-082-5752	Nylon, tubular, 1/2-in, 1,000-lb natural	As required
8305-00-263-3591	Type VIII	As required

Section II

RIGGING M1081, 2 1/2-TON CARGO TRUCK WITH ACCOMPANYING LOAD

2-18. Description of Load

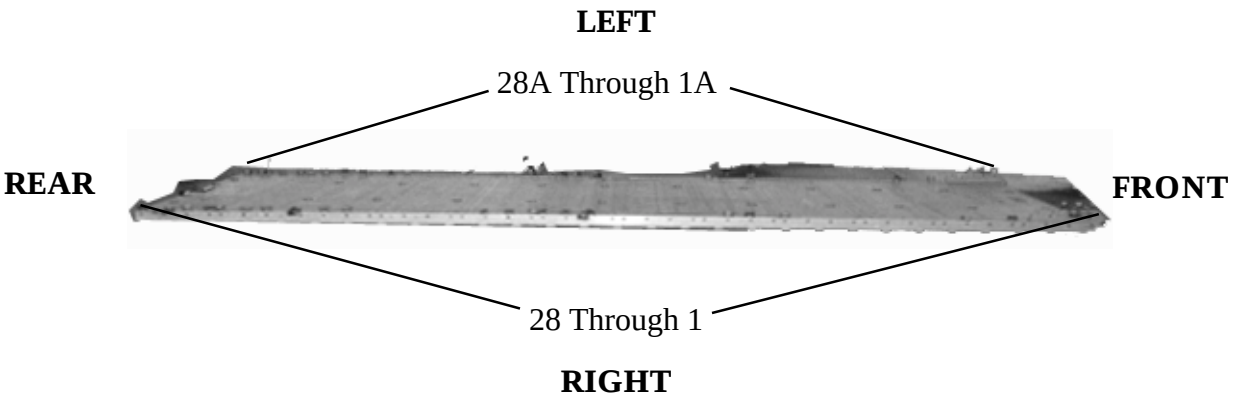
The M1081, 2 1/2-ton cargo truck is rigged on a 24-foot, type V airdrop platform with six G-11cargo parachutes and other items of airdrop equipment.

The load consists of the M1081, 2 1/2-ton cargo truck and accompanying load of 42 boxes of 105mm ammunition. This load is 97 inches in height, 108 inches in width, 315 inches in length and has a rigged weight of 28,014 pounds.

2-19. Preparing Platform

Prepare a 24-foot, type V platform as shown in *Figure 2-22*.

NOTES: **1. The nose bumper may or may not be installed.**
2. Measurements given in this section are from the front edge of the platform NOT from the front edge of the nose bumper.



Step:

1. Inspect, or assemble and inspect, a 24-foot, type V airdrop platform as outlined in TM 10-1670-268-20&P/ TO 13C7-52-22.
2. Install a tandem multi-purpose link to each platform side rail using holes 1, 2, and 3.
3. Attach clevises to each tandem link using bushings 1, 2, (tripled), and 3.
4. Starting at the front of each platform side rail, install clevises using bushings bolted to holes 5, 7, 16, 18, 19, 26 (doubled), 27, 28, 29, 30, 31, 38, 39, 41 (doubled), 42, 43, 44, 45, 46, 47, (tripled), and 48.
5. Starting at the front of the platform, number the clevises 1 through 28 on the right side and 1A through 28A on the left side.

Figure 2-22. Platform prepared

2-20. Preparing Honeycomb Stacks

Use the material in *Table 2-3* to prepare 10 honeycomb stacks as shown in *Figures 2-23 through 2-30.*

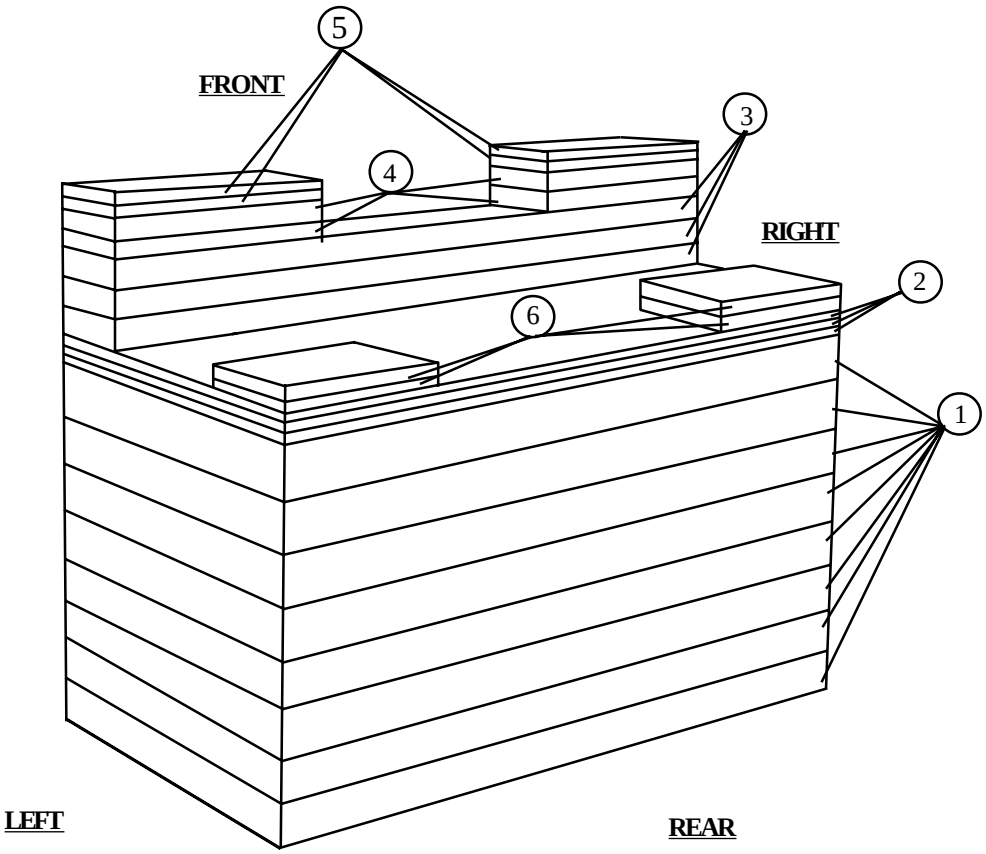
Table 2-3. Material needed to build honeycomb stacks.

Stack Number	Pieces	Width (Inches)	Length (Inches)	Material	Instructions
1	8	43	24	Honeycomb	See *Figure 2-23.*
	3	43	24	3/4-inch Plywood	
	3	2- by 8	43	Lumber	
	4	2- by 8	12	Lumber	
	4	12	7 1/2	3/4-inch Plywood	
	4	14	7	3/4-inch Plywood	
2	5	48	18	Honeycomb	See *Figure 2-24.*
	2	48	18	3/4-inch Plywood	
	2	2- by 6	18	Lumber	
	6	18	5 1/2	3/4-inch Plywood	
3	2	36	46	Honeycomb	See *Figure 2-25.*
	2	12	46	Honeycomb	
	12	18	46	Honeycomb	
	6	12	36	Honeycomb	
	4	48	46	3/4-inch Plywood	
	2	2- by 8	26 1/2	Lumber	
	1	7 1/2	26 1/2	1/2-inch Plywood	
	2	7 1/2	8	3/4-inch Plywood	
	1	8	16	3/4-inch Plywood	
	1	8	6	3/4-inch Plywood	
	1	10	10	3/4-inch Plywood	
	4	12	14	3/4-inch Plywood	
4	2	36	44	Honeycomb	See *Figure 2-26.*
	2	12	44	Honeycomb	
	12	18	44	Honeycomb	
	6	12	36	Honeycomb	
	3	48	44	3/4-inch Plywood	
	1	2- by 6	48	Lumber	
	2	2- by 12	34	Lumber	
	6	2- by 6	21	Lumber	
	4	2- by 12	12	Lumber	
	4	11 1/2	12	3/4-inch Plywood	

Table 2-3. Material needed to build honeycomb stacks (continued).

Stack Number	Pieces	Width (Inches)	Length (Inches)	Material	Instructions
5	5 2 2 6	60 60 2- by 6 5 1/2	18 18 18 18	Honeycomb 3/4-inch Plywood Lumber 3/4-inch Plywood	See *Figure 2-27*.
6	8 3 4 6 3	48 48 2- by 6 2- by 6 2- by 6	18 18 45 8 33	Honeycomb 3/4-inch Plywood Lumber Lumber Lumber	See *Figure 2-28*.
7	1	18	96	Honeycomb	See *Figure 2-29*
8	1	18	96	Honeycomb	See *Figure 2-29*.
9	1	18	74	Honeycomb	See *Figure 2-30*.
10	1	18	74	Honeycomb	See *Figure 2-30*.

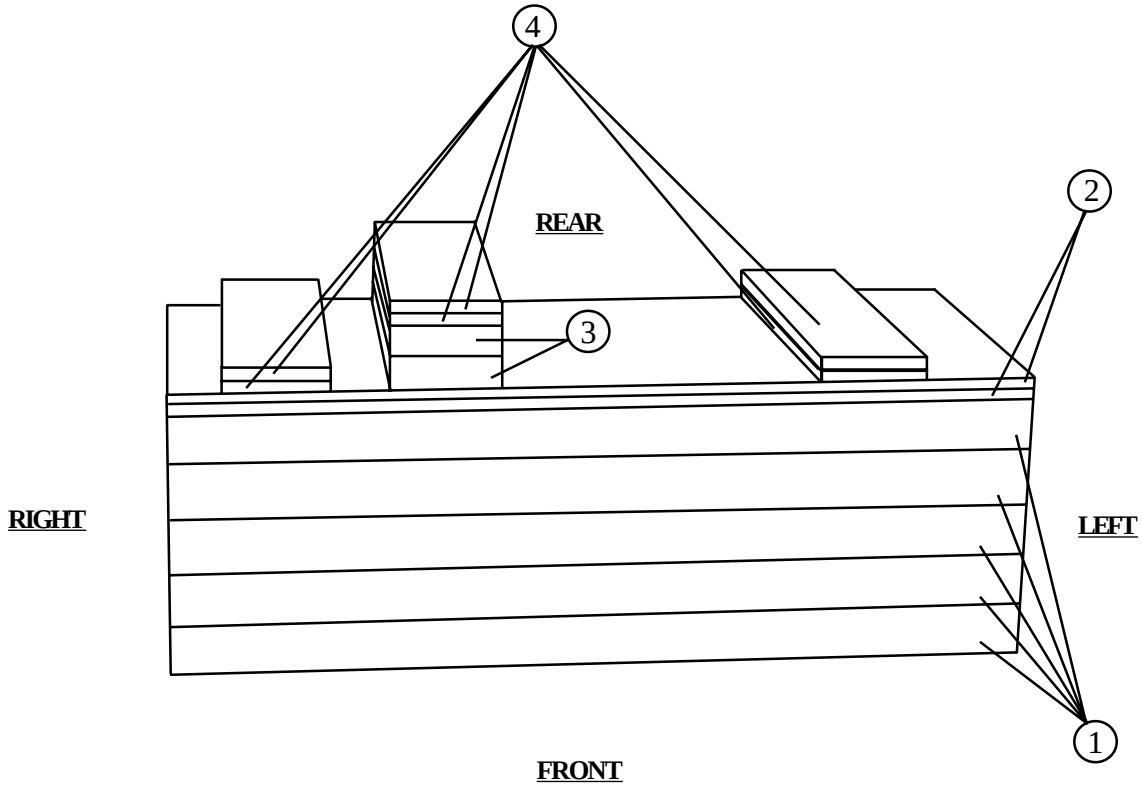
NOTE: On all stacks the plywood must be cut to fit lumber. EXAMPLE: An 11 1/2- by 24 inch piece of plywood sits on a 2- by 12- by 24-inch piece of lumber but hangs over a 1/2 inch on the 11 1/2 inch side. Cut it to 11 by 24 inches to insure it fits. This is not due to improper measurements but to the fact that lumber varies in true sizes.



STACK 1

1. Glue eight 43- by 24-inch pieces of honeycomb together to form a base.
2. Glue and nail three 43- by 24-inch pieces of 3/4-inch plywood together. Glue the plywood to the top of the base.
3. Glue and nail three 2- by 8- by 43-inch pieces of lumber together. Center and glue the lumber flush with the front of base.
4. Glue and nail two 2- by 8- by 12-inch pieces of lumber together. Repeat with remaining two pieces, forming two stacks. Glue and nail one stack to the right side, and the other stack to the left side of previous 2- by 8- by 43-inch piece of lumber.
5. Glue and nail two 12- by 7 1/2- by 3/4-inch pieces of plywood together. Repeat with remaining two pieces, forming two stacks. Glue and nail one stack to the right side, and the other stack to the left side of previous 2- by 8- by 12-inch piece of lumber.
6. Glue and nail two 14- by 7- by 3/4-inch pieces of plywood together. Repeat with remaining two pieces, forming two stacks. Glue one stack to the rear right side, and the other stack to the rear left side of base.

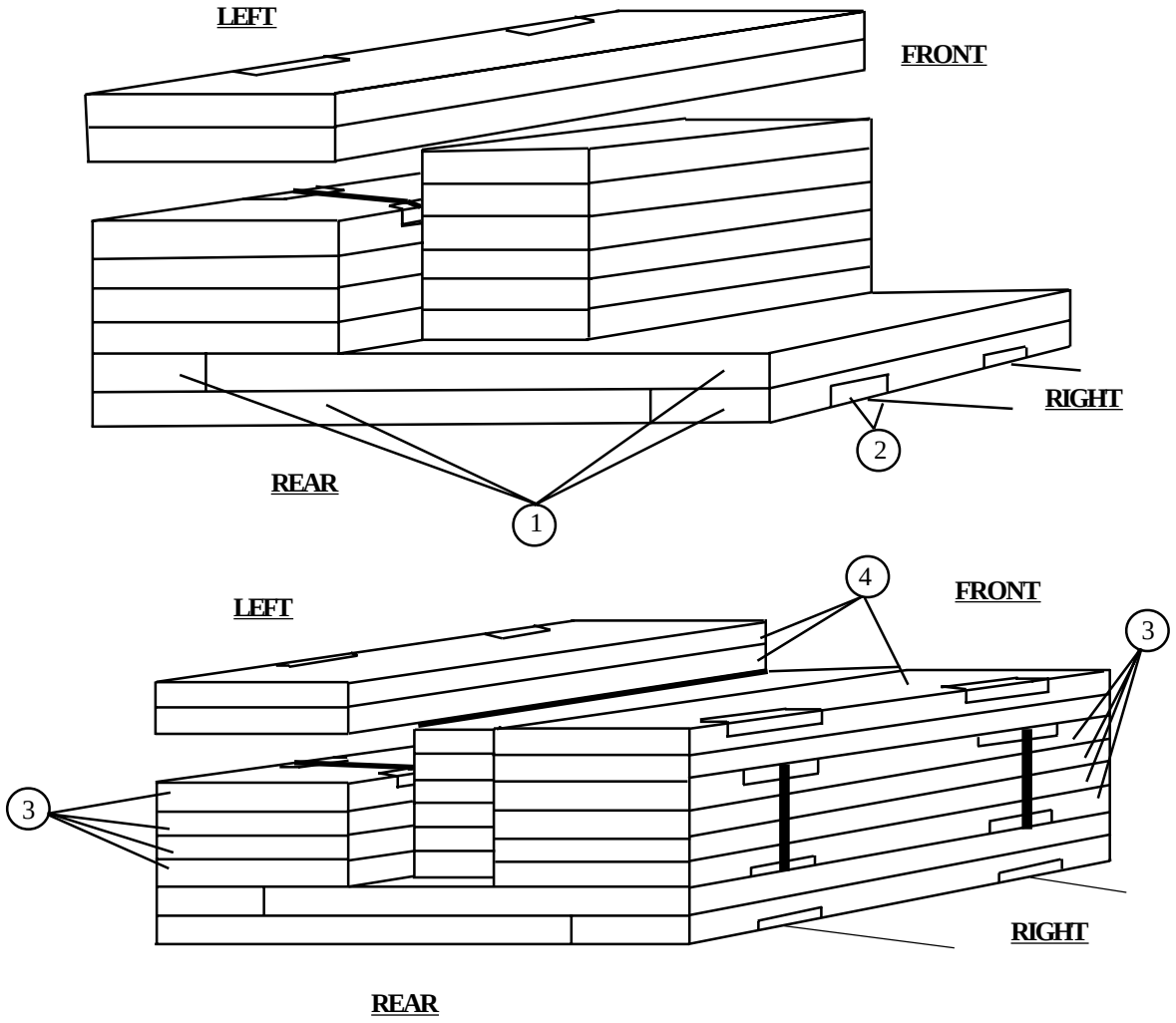
Figure 2-23. Stack 1 prepared



STACK 2

1. Glue five 18- by 48-inch pieces of honeycomb together to form base.
2. Glue and nail two 18- by 48-inch pieces of 3/4-inch plywood together. Glue to top of base.
3. Glue and nail two 2- by 18- by 48-inch pieces of lumber together. Glue and nail 13 inches from the right edge of the 18- by 48-inch pieces of plywood.
4. Glue and nail two 18- by 5 1/2-inch pieces of 3/4-inch plywood together. Repeat two more times with remaining four pieces, forming three stacks. Glue and nail one stack 3 inches from right edge of base. Glue and nail one stack on top of the 2- by 6- by 18-inch piece of lumber. Glue remaining stack 7 inches from the left side of base.

Figure 2-24. Stack 2 prepared



STACK 3

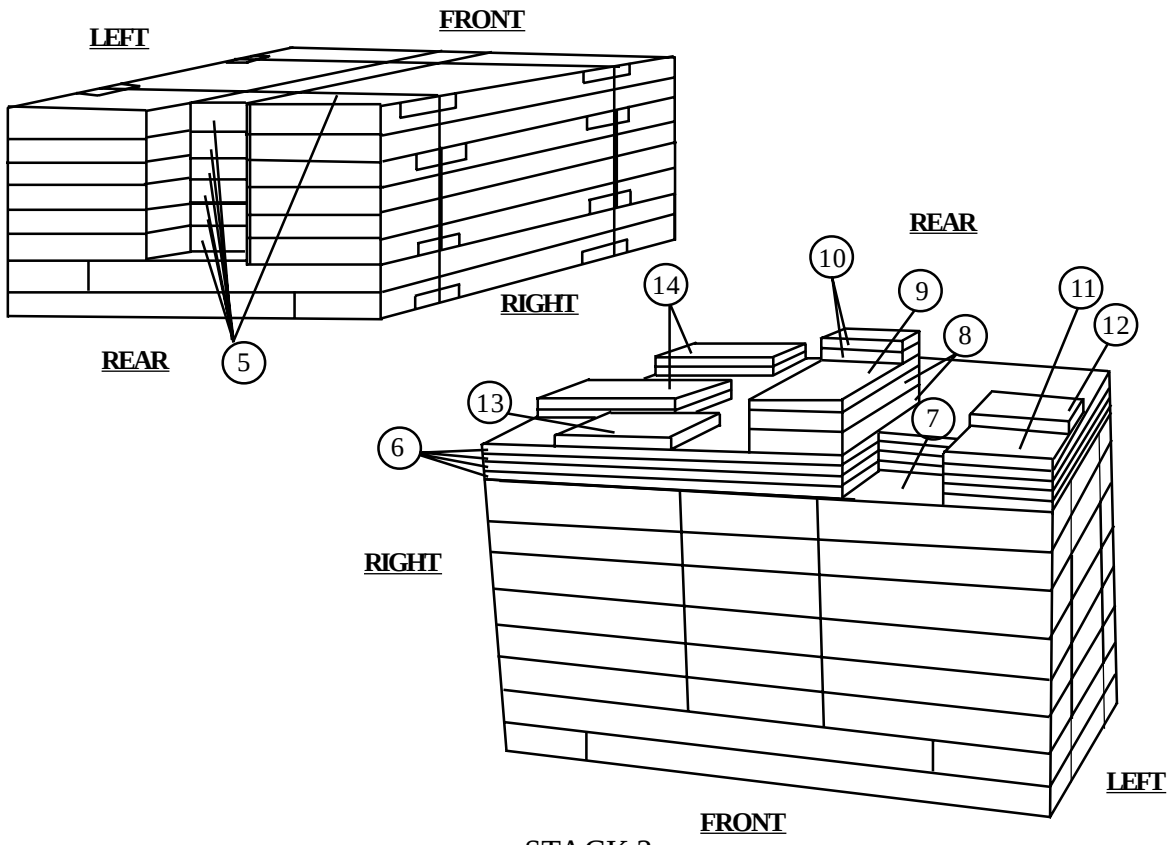
(1) Position a 36- by 46-inch piece of honeycomb beside a 12- by 46-inch piece of honeycomb. Alternate and glue a 36- by 46-inch piece of honeycomb and a 12- by 46-inch piece of honeycomb on top of the pieces of honeycomb to form the base.

(2) Place length of cloth backed tape on the bottom outer edges of the base. Position two 13-foot lengths of type III nylon cord under the base aligned with the strips of tape.

(3) Form two stacks by gluing four 12- by 46-inch pieces of honeycomb together. Place length of tape on all edges. Run two lengths of 1/2-inch tubular nylon webbing over the strips of tape and around the stack. Secure and tie with a square knot on the outside of the stack. Place on the left and right sides of base **(Do NOT glue to base)**.

(4) Form two stacks by gluing two 12- by 46-inch pieces of honeycomb together. Place length of cloth backed tape on the outer edges **(Do NOT glue to stacks).** Position one stack on each of the previous stacks.

Figure 2-25. Stack 3 prepared



STACK 3

(5) Glue six 12- by 36-inch pieces of honeycomb together to form a stack. Position between 18- by 46-inch stacks and flush with the front of base **(Do NOT glue to base).** Secure and tie the type III nylon cord around the completed honeycomb stack.

(6) Glue and nail four 48- by 46-inch pieces of 3/4-inch plywood together. **(Do not build lumber stack on honeycomb stack. The lumber will be placed on the stack later.)**

(7) Cut an 8-inch long, 12-inch deep cutout in the front of each of the 48-inch sides of plywood and 8 inches from the left 46 inch side of the plywood.

(8) Glue and nail two 2- by 8- by 26 1/2-inch pieces of lumber flush with front edge and right edge of cutout. Glue and nail each piece separately.

(9) Glue and nail a 7 1/2- by 26 1/2-inch piece of 1/2-inch plywood on top of the 2- by 8- by 26 1/2-inch piece of lumber.

(10) Glue and nail two 7 1/2- by 8-inch pieces of 3/4-inch plywood. Glue the plywood flush and to the rear of the 7 1/2- by 26 1/2-inch pieces of 1/2-inch plywood.

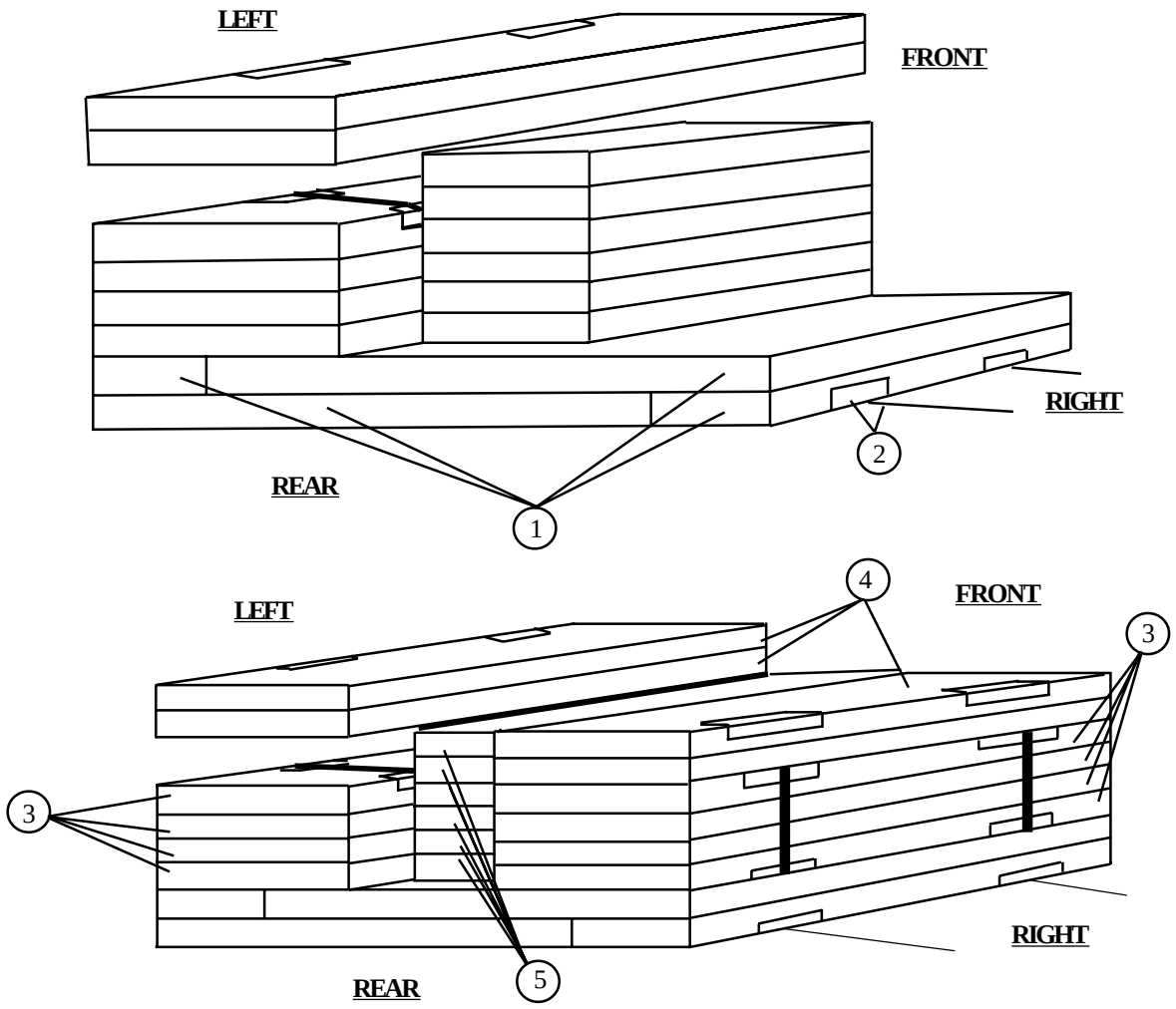
(11) Glue and nail a 8- by 16-inch piece of 3/4-inch plywood flush with front left edge of the 48- by 46-inch piece of 3/4-inch plywood.

(12) Glue and nail a 8- by 6-inch piece of 3/4-inch plywood flush with rear left edge of the 8- by 16-inch piece of 3/4-inch plywood.

(13) Glue and nail a 10- by 10-inch piece of 3/4-inch plywood flush with front edge, 8 inches from right side.

(14) Form two stacks by gluing and nailing two 12- by 14-inch pieces of 3/4-inch plywood together. Position one stack against the rear edge of the 10- by 10-inch piece of 3/4-inch plywood. Ensure the 12 inch side is flush with right edge of the 48- by 46-inch piece of 3/4-inch plywood. Glue and nail the other stack flush with right rear edge of the 48- by 46-inch piece of 3/4-inch plywood. Ensure the 12 inch side is flush with right edge of the 48- by 46-inch piece of 3/4-inch plywood. Glue all lumber to honeycomb base.

Figure 2-25. Stack 3 prepared (continued)



STACK 4

(1) Position a 36- by 44-inch piece of honeycomb beside a 12- by 44-inch piece of honeycomb. Alternate and glue a 36- by 44-inch piece of honeycomb and a 12- by 44-inch piece of honeycomb on top of the pieces of honeycomb to form the base.

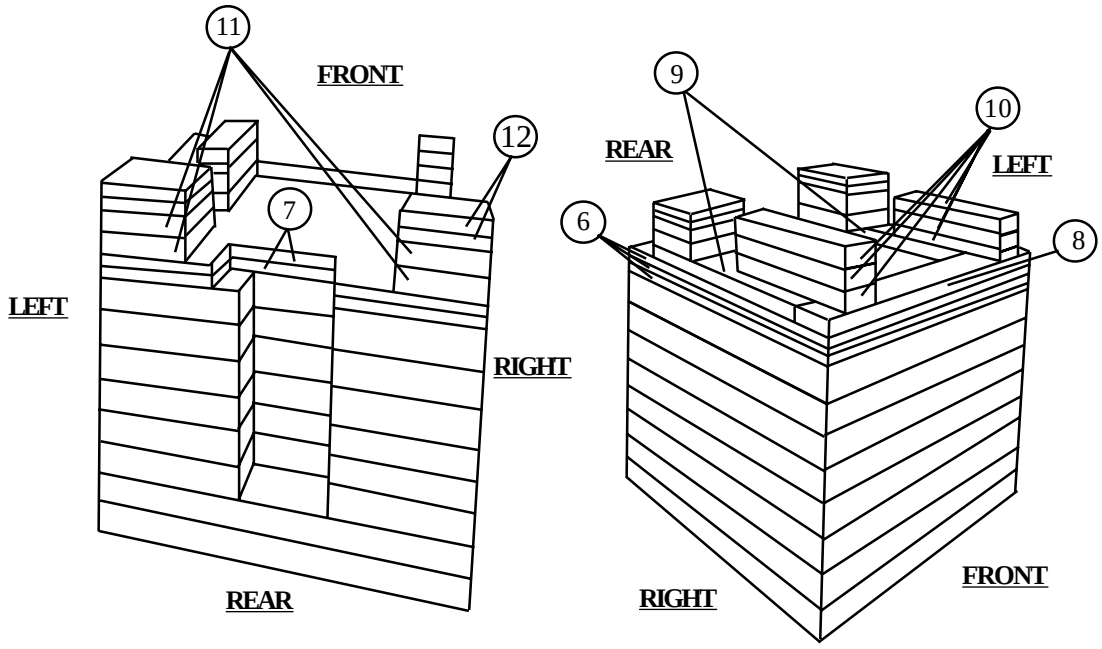
(2) Place length of cloth backed tape on the bottom outer edges of the base. Position two 13-foot lengths of type III nylon cord under the base aligned with the strips of tape.

(3) Form two stacks by gluing four 18- by 44-inch pieces of honeycomb together. Place length of tape on all edges. Run two lengths of 1/2-inch tubular nylon webbing over the strips of tape and around the stack. Secure and tie with a square knot on the outside of the stack. Place on the left and right sides of base **(Do NOT glue to base)**.

(4) Form two stacks by gluing two 12- by 44-inch pieces of honeycomb together. Place length of cloth backed tape on the outer edges **(Do NOT glue to stacks).** Position one stack on each of the previous stacks.

(5) Glue six 12- by 36-inch pieces of honeycomb together to form a stack. Position between 18- by 44-inch stacks and flush with the front of base **(Do NOT glue to base).** Secure and tie the type III nylon cord around the completed honeycomb stack.

Figure 2-26. Stack 4 prepared



STACK 4

(6) Glue and nail three 48- by 44-inch pieces of 3/4-inch plywood together. **(Do not build lumber stack on honeycomb stack. The lumber will be placed on the stack later.)**

(7) Cut a 26-inch by 15-inch deep cutout centered in the rear of the 48-inch side of plywood.

(8) Glue and nail a 2- by 6- by 48-inch piece of lumber with front edge of 48- by 44-inch piece of 3/4-inch plywood.

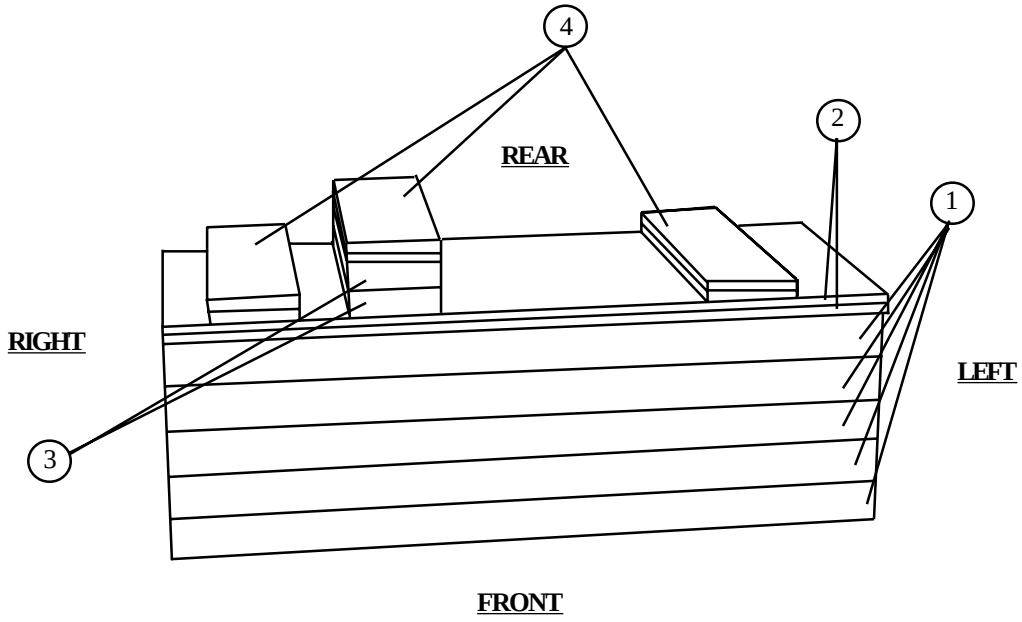
(9) Glue and nail two 2- by 12- by 34-inch pieces of lumber, one piece flush with the left side and the other flush on the right side of the 48- by 44-inch piece of 3/4-inch plywood and against the 2- by 12- by 48-inch piece of lumber.

(10) Form two stacks by gluing and nailing three 2- by 6- by 21-inch pieces of lumber together. Place one stack flush with the front of the 2- by 6- by 48-inch piece of lumber edge and 5 1/2 inches from the left edge. Glue and nail the other stack flush with the front of the 2- by 6- by 48-inch lumber edge and 5 1/2 inches from the right side.

(11) Form two stacks by gluing and nailing two 2- by 12- by 12-inch pieces of lumber together. Place one stack flush with the rear right edge of the 2- by 12- by 34-inch piece of lumber. Repeat for the left side.

(12) Form two stacks by gluing and nailing two 11 1/2- by 12-inch pieces of lumber together. Place one stack on top of the 2- by 12- by 12-inch lumber on right side. Glue and nail the other stack on top of the 2- by 12- by 12-inch lumber on the left side. Glue all lumber to honeycomb base.

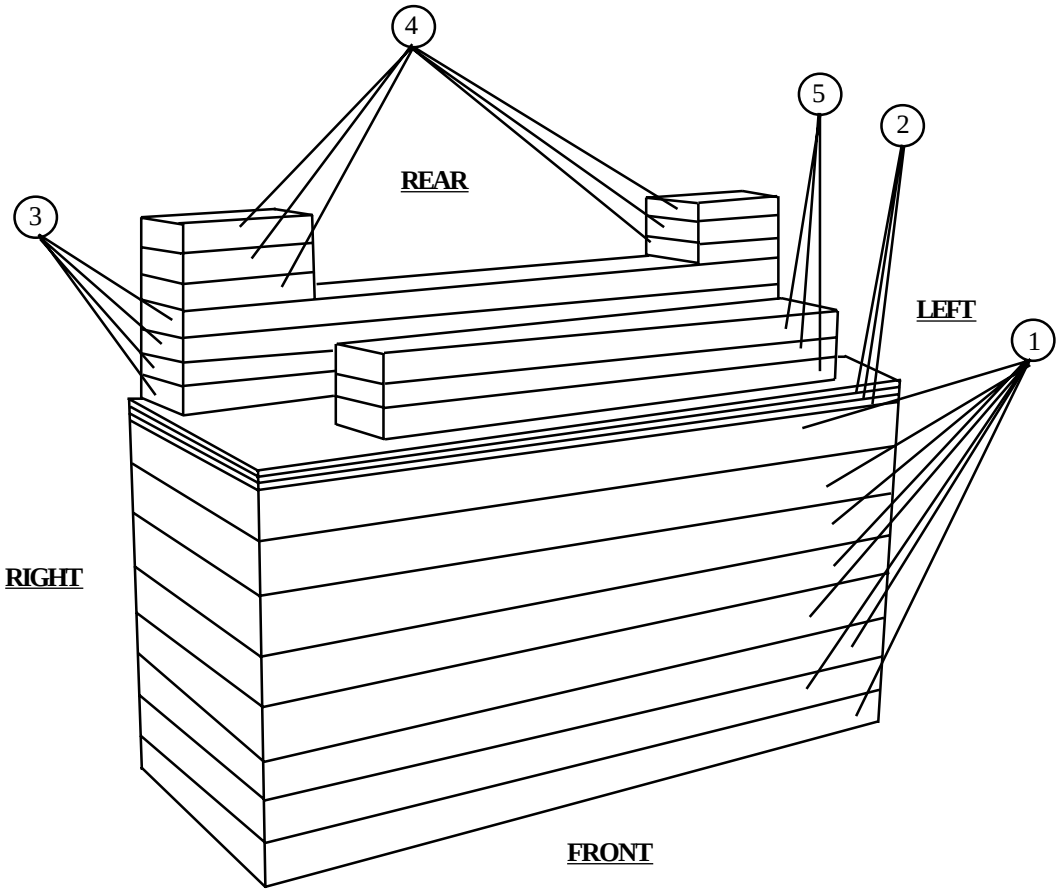
Figure 2-26. Stack 4 prepared (continued)



STACK 5

1. Glue five 18- by 60-inch pieces of honeycomb together to form base.
2. Glue and nail two 18- by 60-inch pieces of 3/4-inch plywood together. Glue to top of base.
3. Glue and nail two 2- by 6- by 18-inch pieces of lumber together. Glue and nail 16 1/2 inches from right edge of 18- by 60-inch piece of 3/4-inch plywood.
4. Form three stacks by gluing and nailing two 5 1/2- by 18-inch pieces of 3/4-inch plywood together. Glue one stack 5-inches from right edge of base. Glue another stack on top of the 2- by 6- by 18-inch piece of lumber. Glue the remaining stack 5 inches from the left side of base. Glue all lumber to honeycomb.

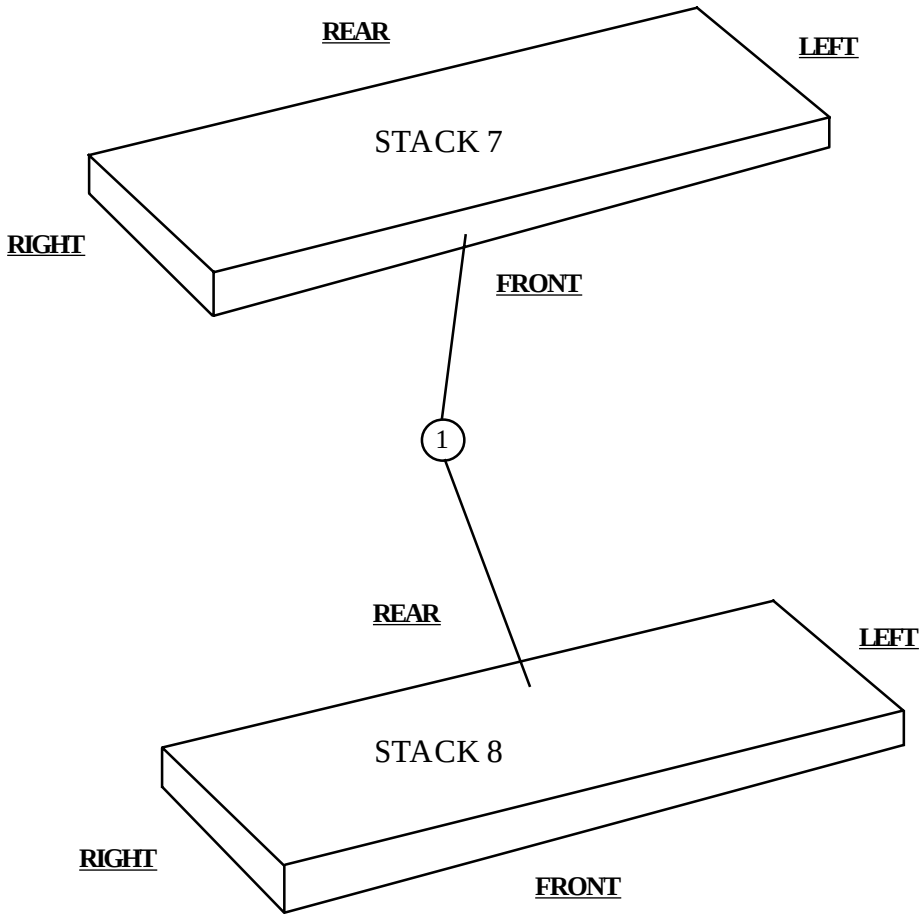
Figure 2-27. Stack 5 prepared



STACK 6

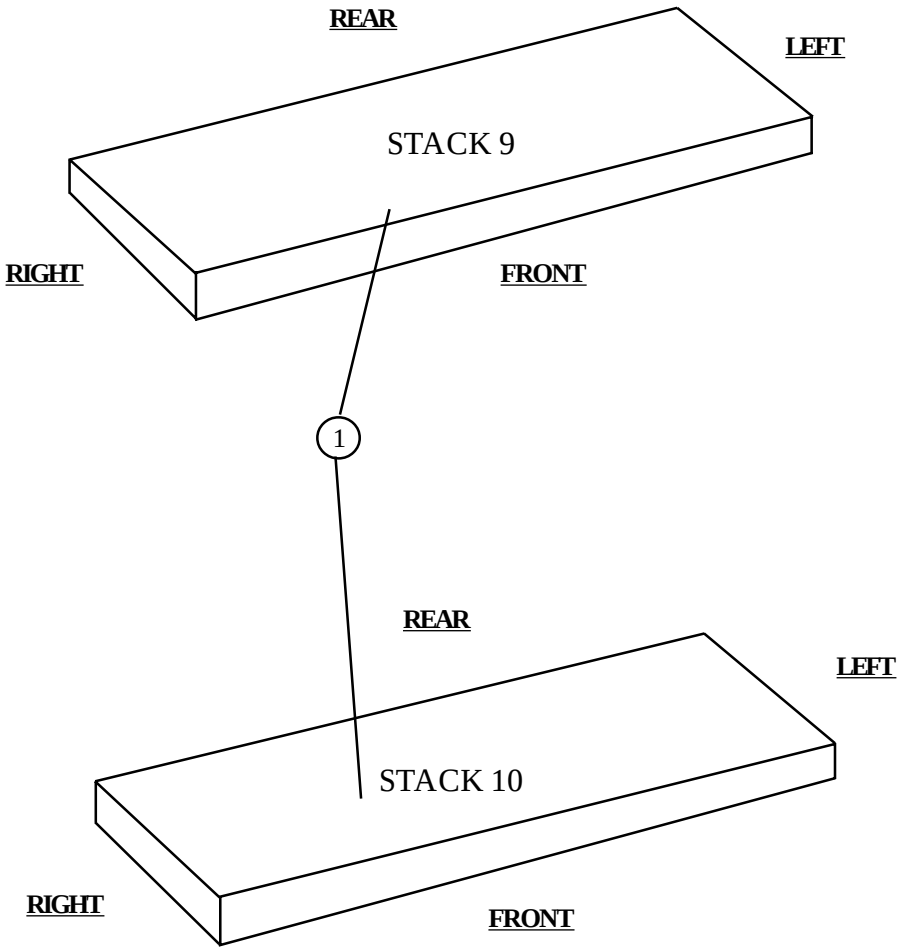
1. Glue eight 18- by 48-inch pieces of honeycomb together to form base.
2. Glue and nail three 18- by 48-inch pieces of 3/4-inch plywood together. **(Do not place on honeycomb. Will be accomplished in last step).**
3. Glue and nail four 2- by 6- by 45-inch pieces of lumber flush with the rear and centered on the 18- by 48-inch piece of 3/4-inch plywood.
4. Form two stacks by gluing and nailing three 2- by 6- by 8-inch pieces of lumber together. Glue and nail one stack to left edge of 2- by 6- by 45-inch piece of lumber. Glue and nail the other stack to the right edge of the 2- by 6- by 45-inch piece of lumber.
5. Glue and nail three 2- by 6- by 33-inch pieces of lumber 2 inches from the edge and centered. Glue all lumber to honeycomb base.

Figure 2-28. Stack 6 prepared



(1) Cut two 18- by 96-inch pieces of honeycomb. No further preparation is needed.

Figure 2-29. Stacks 7 and 8 prepared



(1) Cut two 18- by 74-inch pieces of honeycomb. No further preparation is needed.

Figure 2-30. Stacks 9 and 10 prepared

2-21. Positioning Honeycomb Stacks

Postition the honeycomb stacks as shown in *Figure 2-31.*

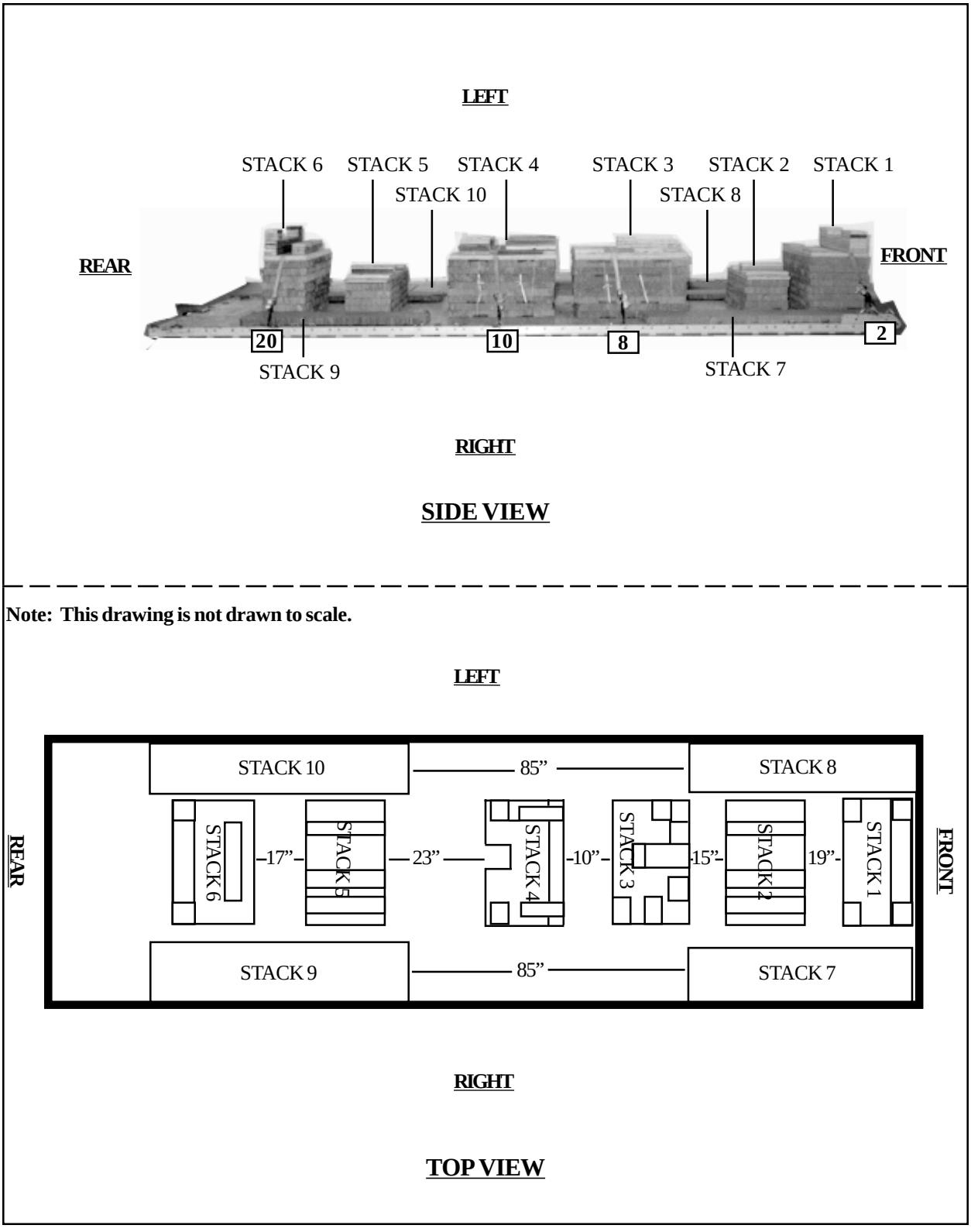


Figure 2-31. Honeycomb stacks positioned on platform

Stack Number	Instructions
1	Position stack 1, centered and flush with the front edge of the platform. Secure the stack by passing a lashing through clevis 2A and it's own D-ring. Route the lashing over the stack and secure it with a loadbinder to clevis 2.
2	Position stack 2, 19 inches from stack 1, 22 inches from the left side rail, and 28 inches from right side rail.
3	Position stack 3, 15 inches from stack 2, 30 1/4 inches from the left side rail and 19 1/4 inches from the right side rail. Secure the stack by passing a lashing through clevis 8A and it's own D-ring. Route the lashing over the stack and secure it with a loadbinder to clevis 8.
4	Position stack 4, 10 inches from stack 3, 25 1/2 inches from the left side rail and 24 1/4 inches from the right side rail. Secure the stack by passing a lashing through clevis 10A and it's own D-ring. Route the lashing over the stack and secure it with a loadbinder to clevis 10.
5	Position stack 5, 23 inches from stack 4, 19 1/4 inches from the left side rail, and 18 inches from right side rail.
6	Position stack 6, 17 inches from stack 5, 26 inches from the left side rail and 23 inches from the right side rail. Secure the stack by passing a lashing through clevis 20A and it's own D-ring. Route the lashing over the stack and secure it with a loadbinder to clevis 20.
7	Position stack 7, flush with the front edge of the platform and flush with the right side rail.
8	Position stack 8, flush with the front edge of the platform and flush with the left side rail.
9	Position stack 9, 85 inches from the rear of stack 7 and flush with the right side rail.
10	Position stack 10, 85 inches from the rear of stack 8 and flush with the left side rail.

Figure 2-31. Honeycomb stacks positioned on platform (Continued)

2-22. Preparing Truck

Prepare the M1081 truck as described below and as shown in *Figure 2-12.*

a. Make sure the fuel tank is 3/4 full.

b. Make sure the batteries and compartment comply with AFJMAN 24-204/TM 38-250.

The following is a list of materials used for truck preparation.

PIECES	WIDTH (inches)	LENGTH (inches)	MATERIAL
1	36	36	Honeycomb
1	36	80	Honeycomb
2	18	60	Honeycomb
10	2- by 6	13	Lumber
2	4- by 4	6	Lumber
2	4- by 4	15	Lumber
4	2- by 4	6	Lumber
1	10	10	3/4-inch Plywood
3	2- by 6	6	Lumber
1	36	96	Honeycomb
4	1/2	10	Bolts (washers and nuts)

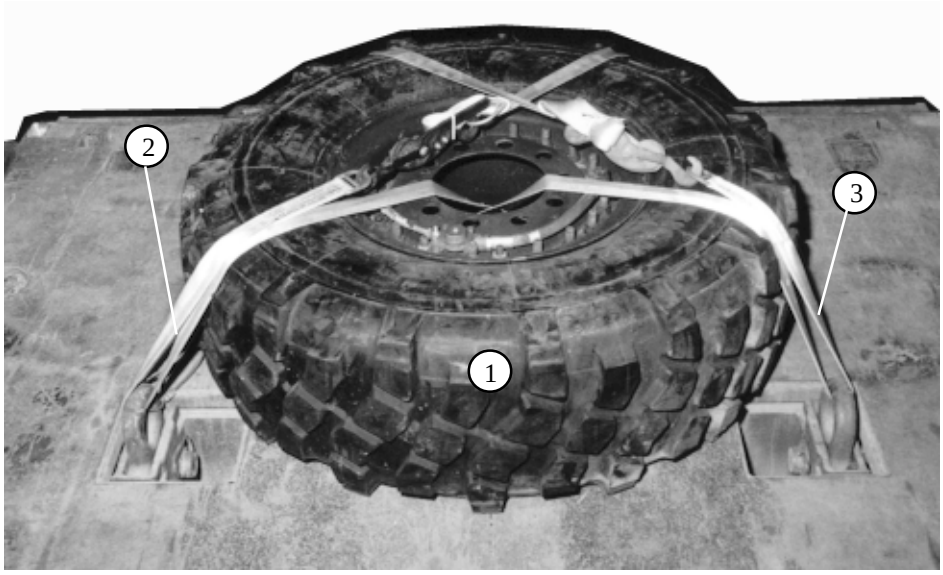
NOTES: 1. The truck should arrive at the rigging site with the gun turret removed from roof and replaced with flat insert.

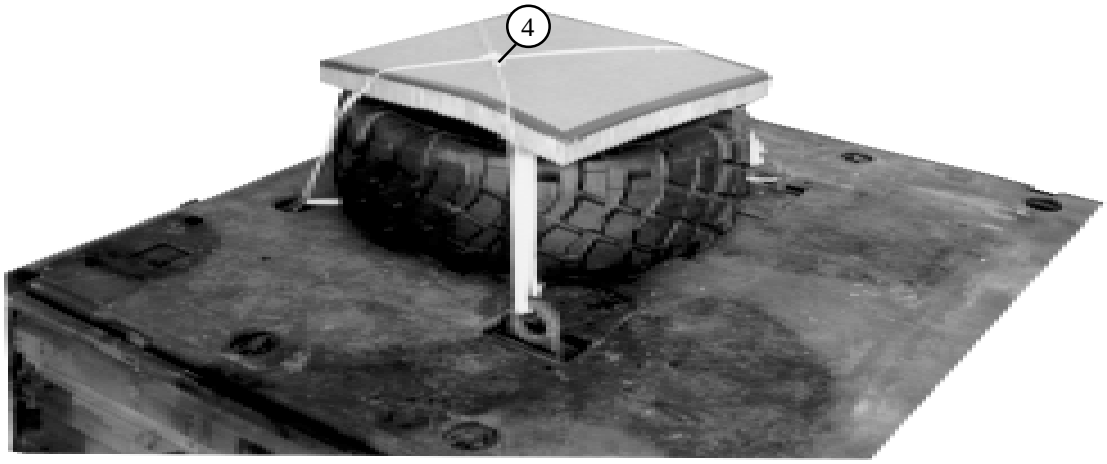
2. The cargo/troop cover, bows, seats, and rails located in the rear of the truck should be removed.

2-23. Stowing Accompanying Load

Stow the accompanying load of forty-two boxes of 105 mm ammunition and vehicle parts as shown in *Figure 2-32.*

NOTE: Ensure the rear lifting points are in the up position.





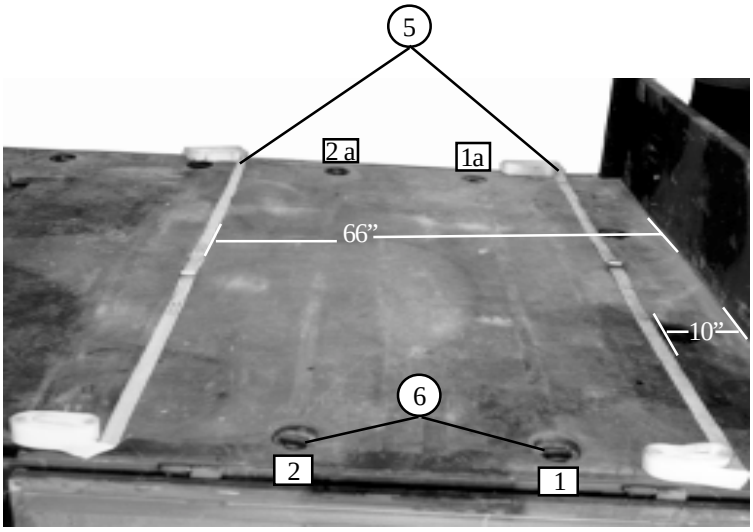
(1) Stow the spare tire on the rear of the truck bed centered between the two rear tiedown rings and the rear lifting points.

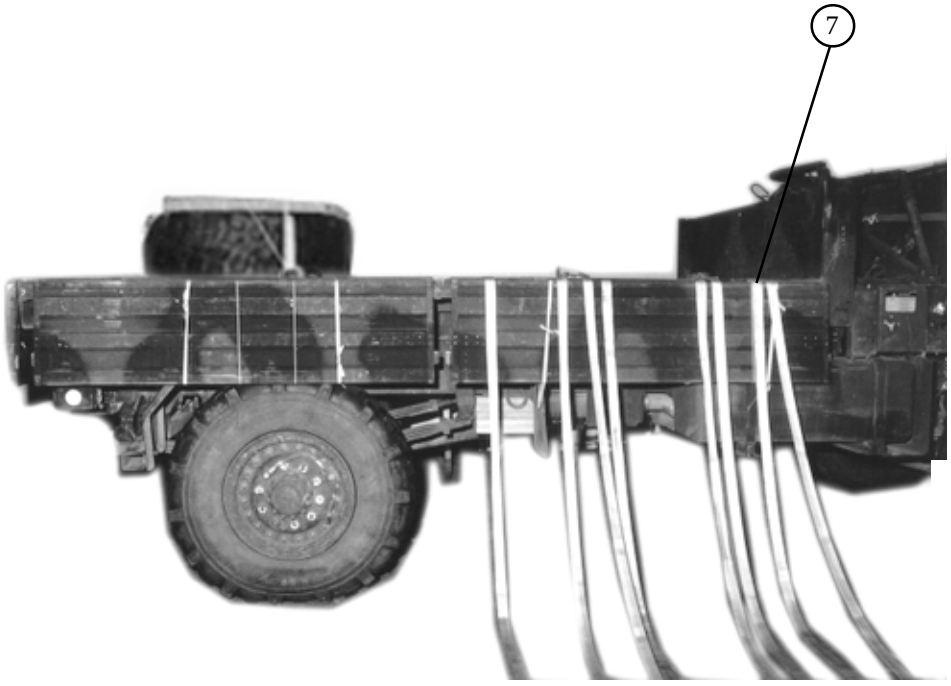
(2) Run a 15-foot tiedown lashing through the left rear tiedown ring under the tire, up through the center of the rim, to the right rear lifting point (do not secure until next step).

(3) Run a second 15-foot tiedown lashing from the right rear tiedown ring under the tire, up through the center of the rim, to the left rear lifting point. Secure both lashings on top of the tire with D-rings and loadbinders.

(4) Cut a 36- by 36-inch piece of honeycomb. Secure the honeycomb on top of the tire with type III nylon cord.

Figure 2-32. Accompanying load stowed



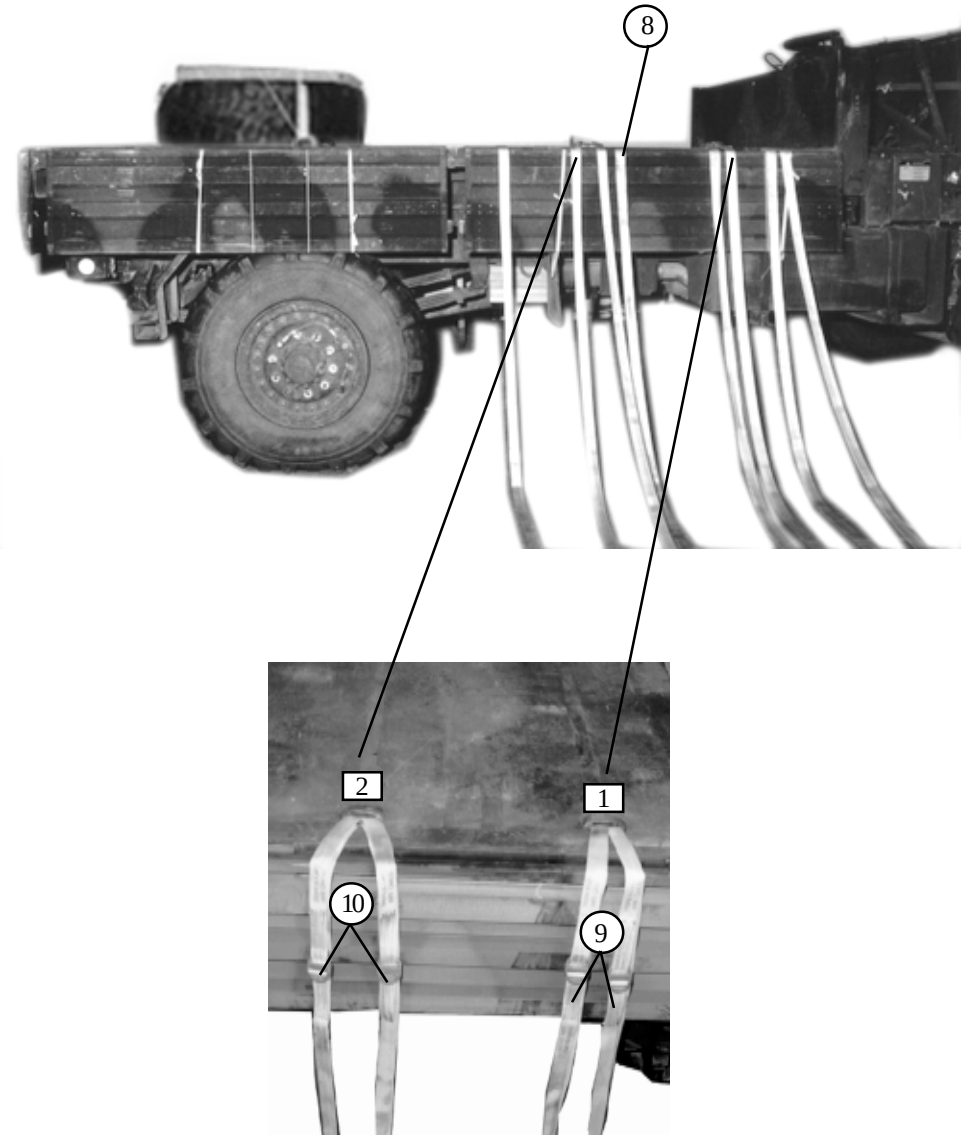


(5) Position two 30-foot tiedown lashings across the truck’s bed. Place the first lashing 10 inches from the front of the truck bed wall and the second lashing 66 inches from the front of the truck bed wall.

(6) Starting at the front of the truck, number the right side tiedown rings 1 and 2. Number the left side tiedown rings 1a and 2a.

(7) Route a 15-foot lashing around the right side mainframe and up between the bed and side panel, approximately 2 inches behind the first 30-foot lashing.

Figure 2-32. Accompanying load stowed (Continued)



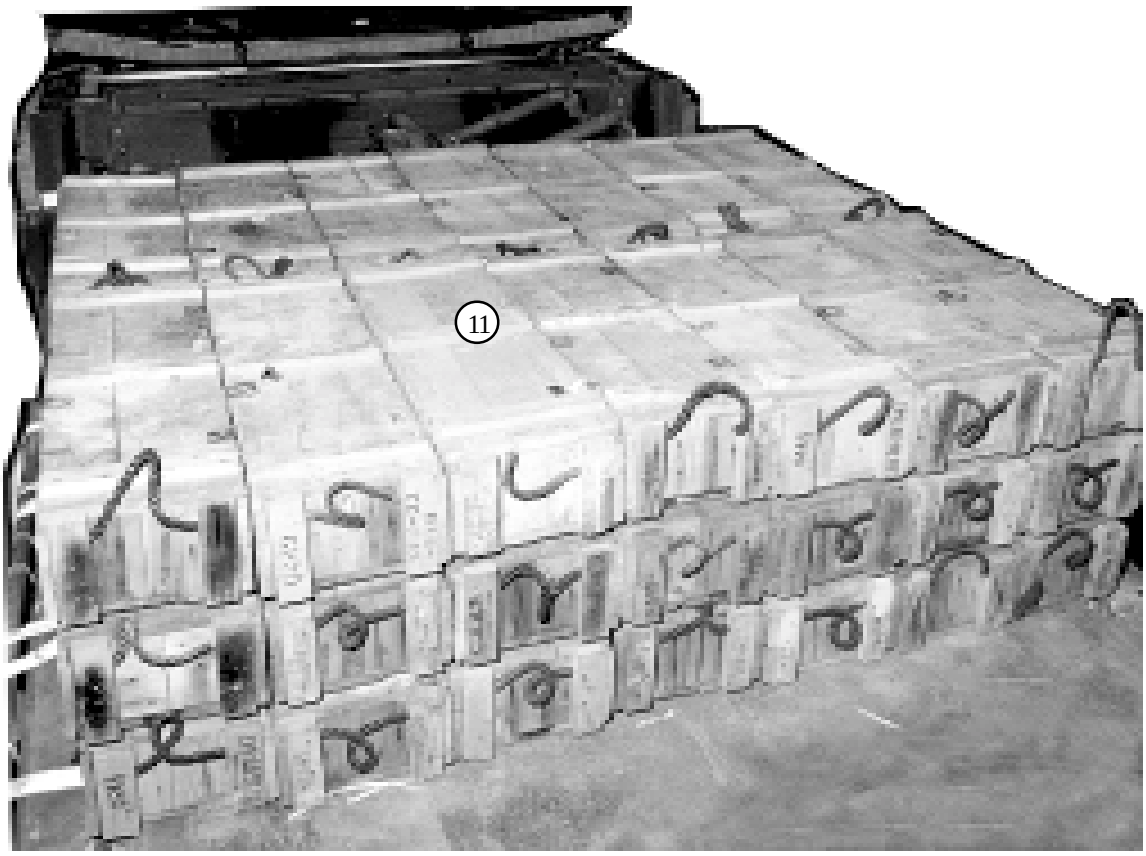
(8) Route a 15-foot lashing around the right side mainframe and up between the bed and side panel, approximately 2 inches in front of the truck bed tiedown ring 2. Repeat for the left side.

(9) Route two 15-foot lashings through the truck bed tiedown ring 1, and through their own D-rings. Repeat for truck bed tie-down ring 1a.

(10) Route two 15-foot lashings through the truck bed tiedown ring 2, and through their own D-rings. Repeat for truck bed tie-down ring 2a.

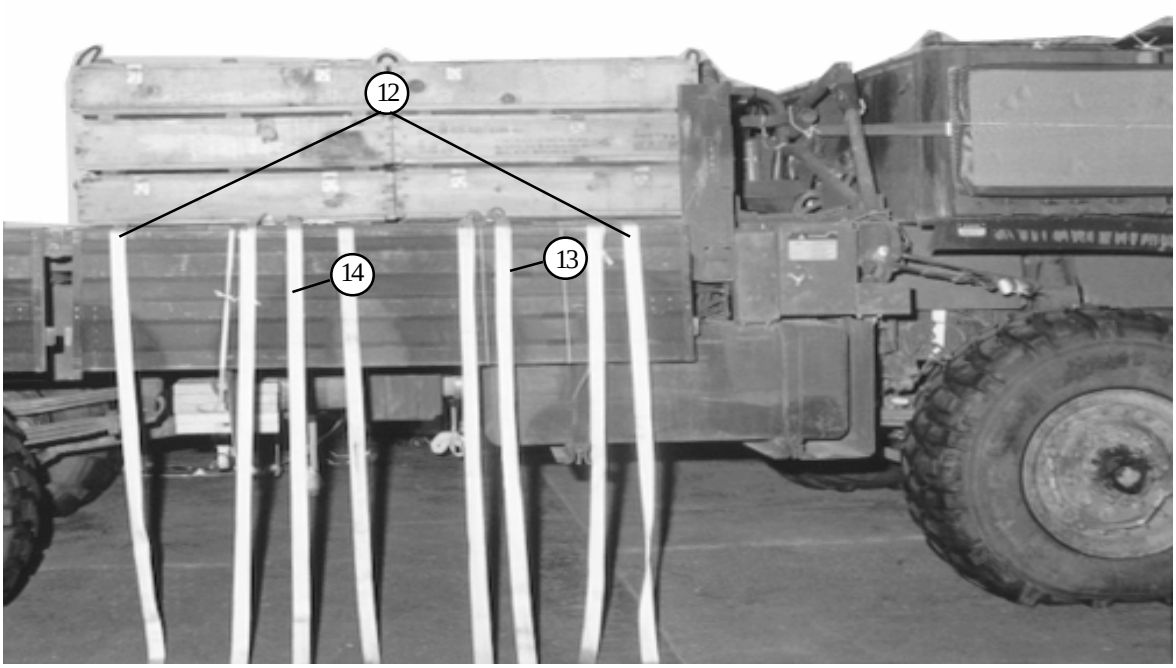
Figure 2-32. Accompanying load stowed (Continued)

Note: Before positioning 105-mm ammunition boxes, make sure that all tiedown rings are laying to the outside of the truck bed.



(11) Position forty-two 105mm ammunition boxes on top of truck bed. Make sure the boxes against the front of the bed, two rows of seven boxes across and three boxes deep.

Figure 2-32. Accompanying load stowed(Continued)



(12) Secure each of the 30-foot lashings on top of the boxes.

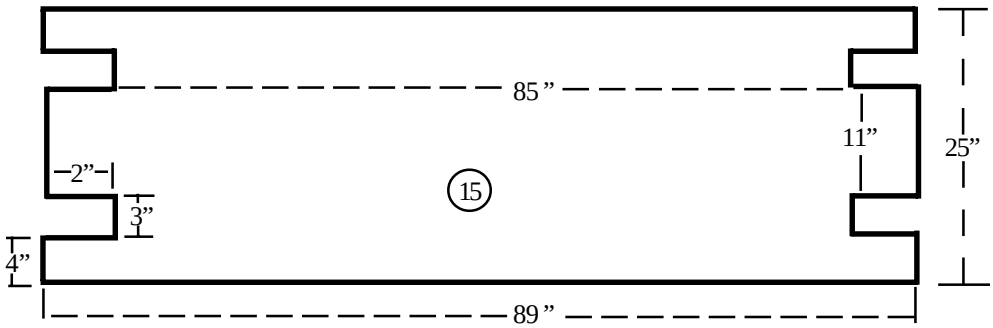
(13) Secure one 15-foot lashing from tiedown ring 1 together on the boxes with one lashing from tiedown ring 1a.

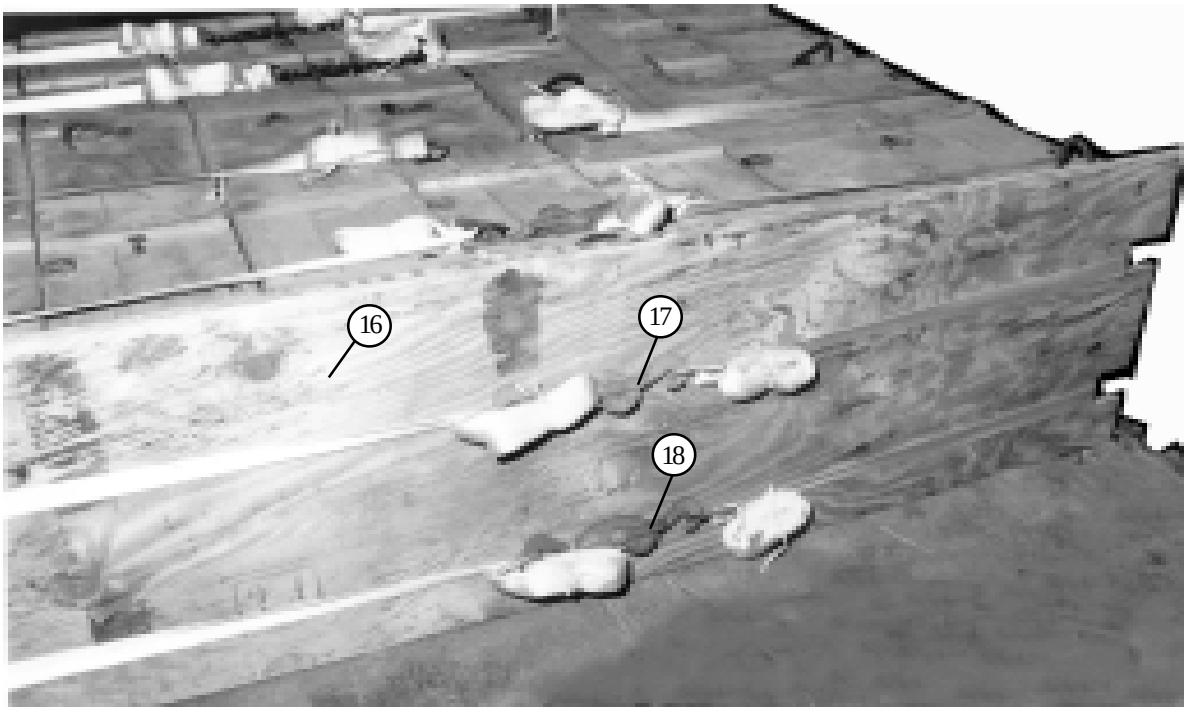
(14) Secure one15-foot lashing from tiedown ring 2 together on top of the boxes with one lashing from tiedown ring 2a.

Figure 2-32. Accompanying load stowed (Continued)

Note: This drawing is not drawn to scale.

1" Plywood





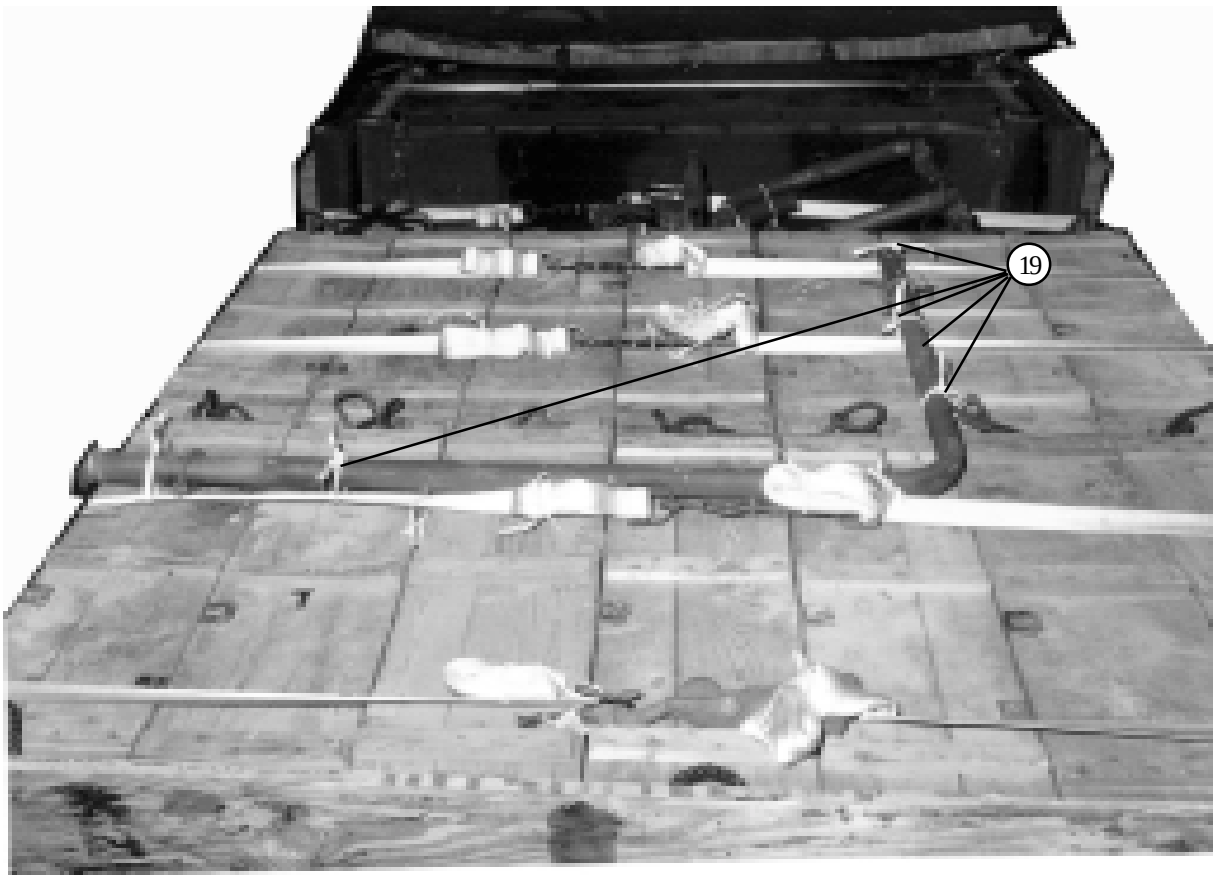
(15) Cut an end-board as shown, using one sheet of 1-inch or two sheets of 1/2-inch plywood.

(16) Position the end-board against the ammunition boxes.

(17) Run the 15-foot lashings from tiedown rings 1 and 1a through the top cutouts. Secure together in the rear with D-rings and loadbinder.

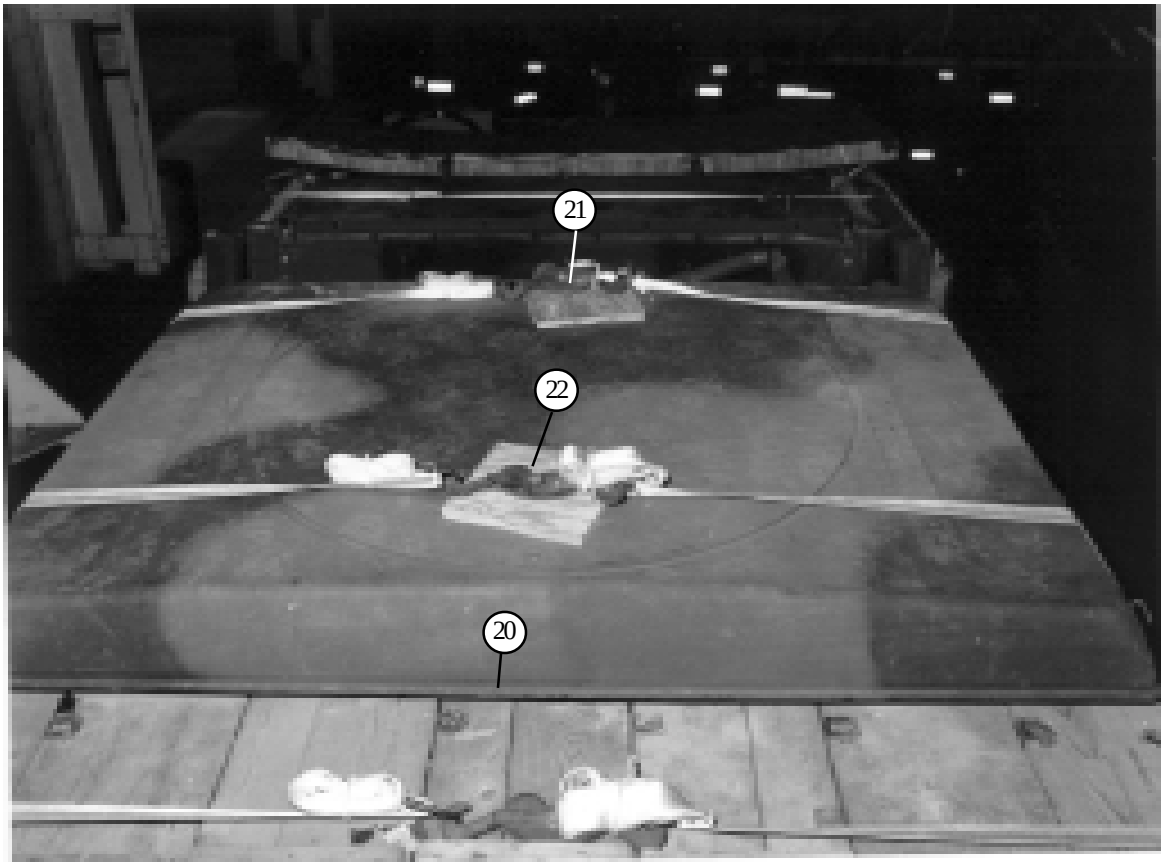
(18) Run the 15-foot lashings from tiedown rings 2 and 2a through the bottom cutouts. Secure together in the rear with D-rings and loadbinder.

Figure 2-32. Accompanying load stowed (Continued)



(19) Secure the spare tire davit on top of the boxes with 1/2-inch tubular nylon, tied to convenient points on the load.

Figure 2-32. Accompanying load stowed (Continued)



(20) Position the roof on top of the ammunition boxes.

(21) Secure the front lashing (routed around the mainframe) together on top of the roof with loadbinder and D-rings. Place a 14- by 14-inch piece of 3/4-inch plywood under the binder and tape to the roof.

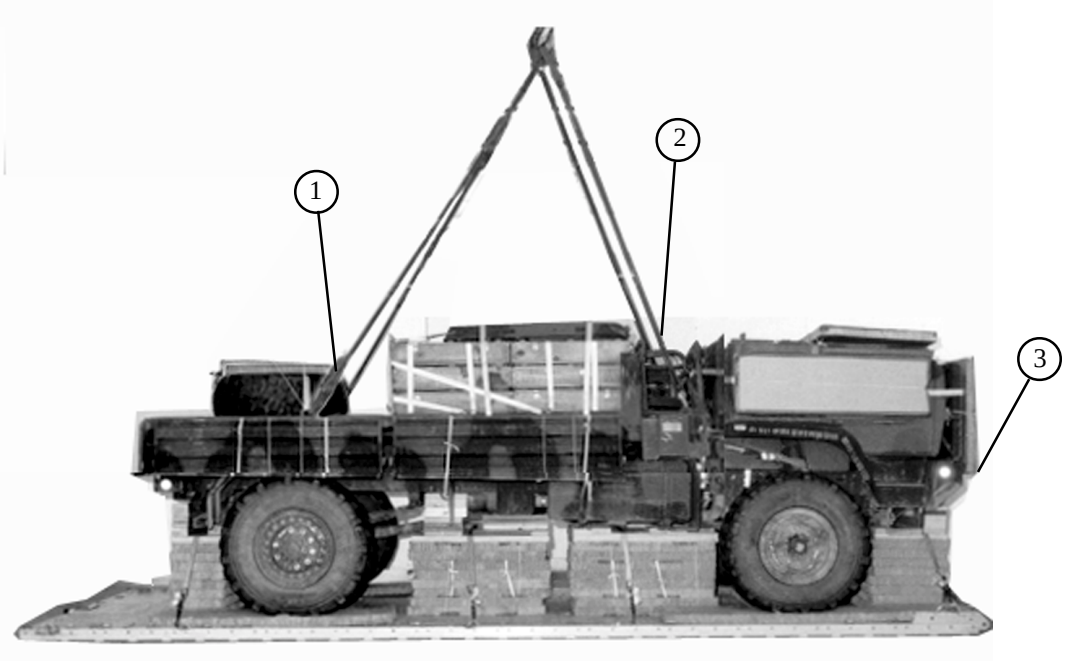
(22) Secure the rear lashing (routed around the mainframe) together on top of the roof. Place a 14- by 14-inch piece of 3/4-inch plywood under the binder and tape to the roof with loadbinder and D-rings.

(23) Secure all corners of the roof with 1/2-inch tubular nylon to convenient points on the load. (Not shown).

Figure 2-32. Accompanying load stowed (Continued)

2-24. Lifting and Positioning Truck

Install lifting sling on the M1081 truck and position the truck on the platform as shown in *Figure 2-33.*

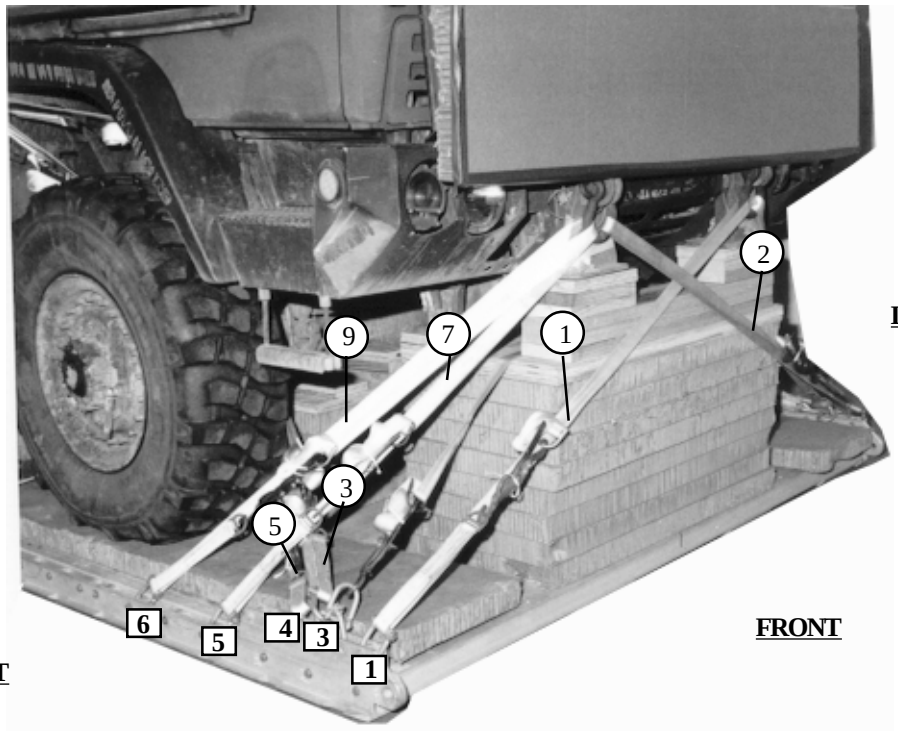


1. Attach a 9-foot (4-loop), type XXVI sling to the rear lifting points with a clevis screw pin. Attach a 3-foot (4-loop), type XXVI sling to each of the rear slings with a 5 1/2-inch two-point link. Wrap the links with felt and tape.
2. Attach a 11-foot (4-loop), type XXVI sling to each of the front lifting points with a clevis screw pin.
3. Position the truck on the platform so that the front of the truck is flush with the front edge of the platform.

Figure 2-33. Lifting slings installed and truck positioned on the platform

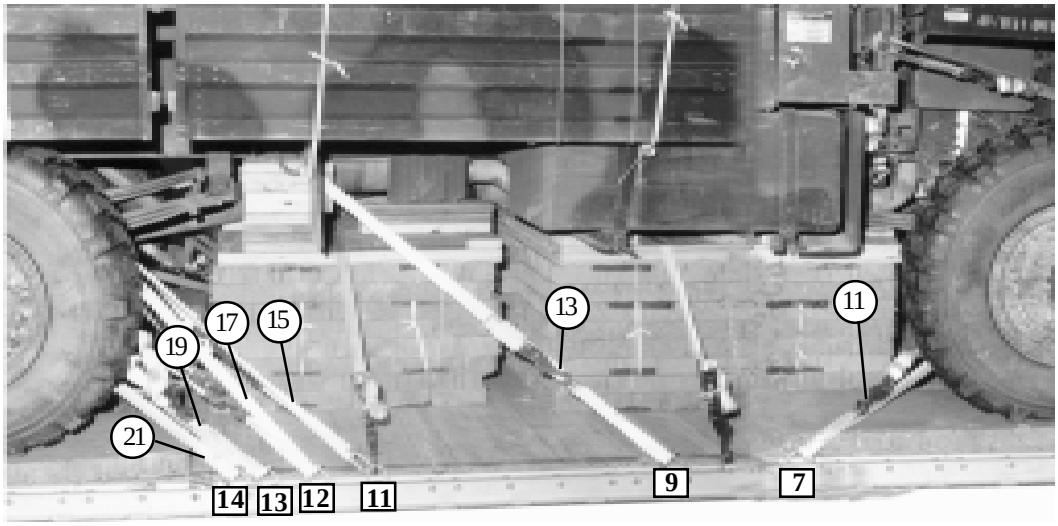
2-25. Installing Lashings

Lash the truck to the platform as shown in *Figure 2-34.*
Install the lashings according to FM 10-500-2/TO 13C7-1-5.



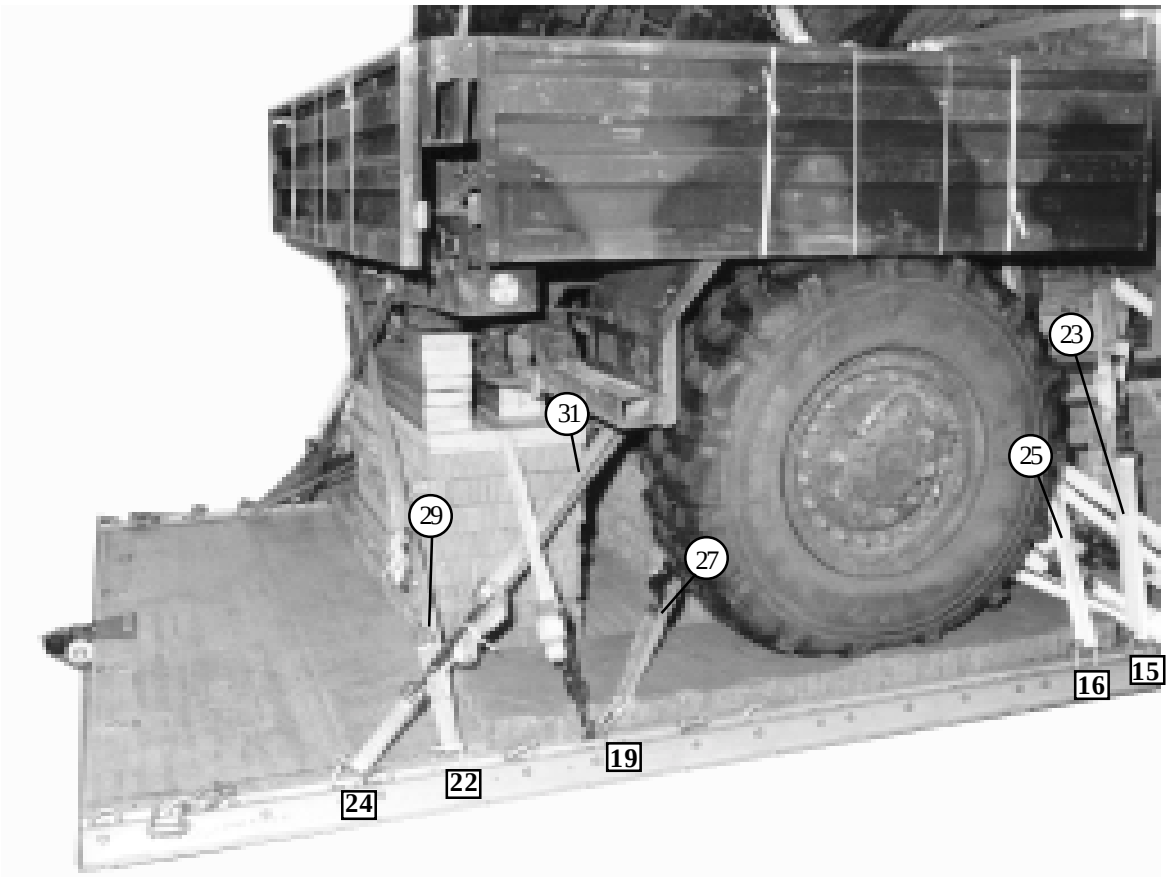
Lashing Number	Clevis Number	Instructions
1	1	Route a 15-foot lashing through the front shackle on the left side.
2	1a	Route a 15-foot lashing through the front shackle on the right side.
3	3	Route a 15-foot lashing around the front axle, right side.
4	3a	Route a 15-foot lashing around the front axle, left side.
5	4	Route a 15-foot lashing around the front axle, right side.
6	4a	Route a 15-foot lashing around the front axle, left side.
7	5	Route a 15-foot lashing through the front shackle on the right side.
8	5a	Route a 15-foot lashing through the front shackle on the left side.
9	6	Route a 15-foot lashing through the front shackle on the right side.
10	6a	Route a 15-foot lashing through the front shackle on the left side.

Figure 2-34. Lashings installed



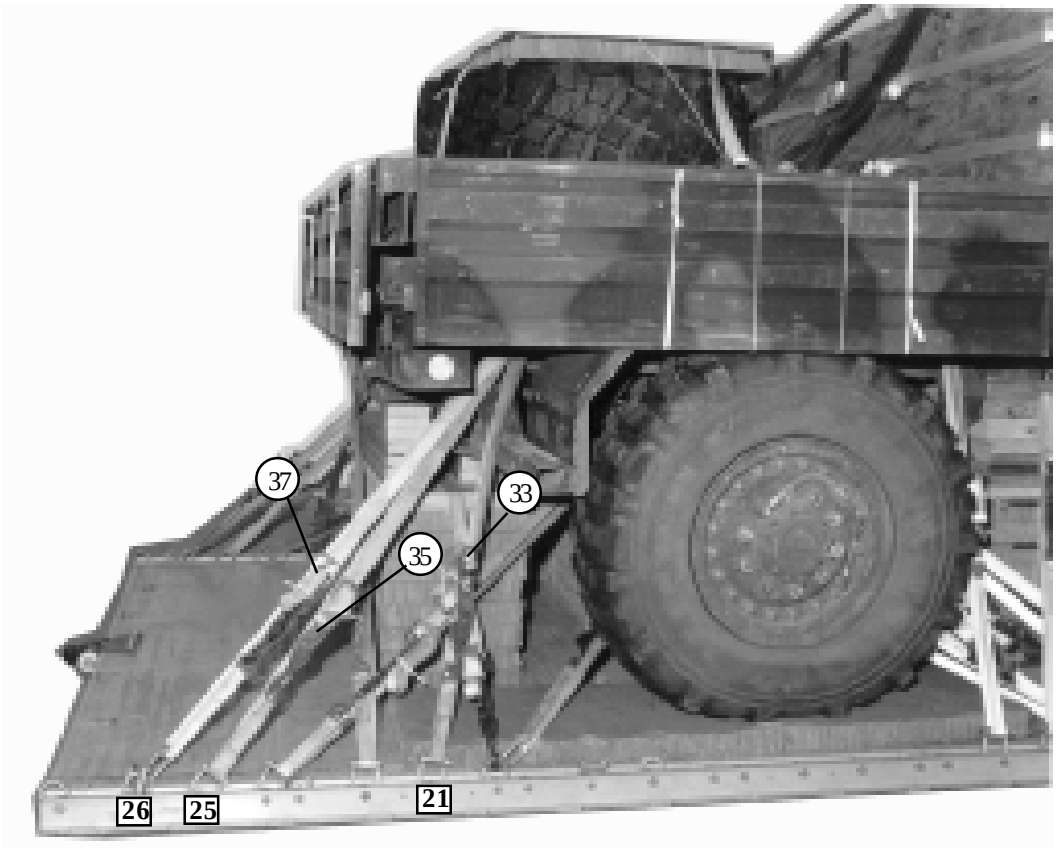
Lashing Number	Clevis Number	Instructions
11	7	Route a 15-foot lashing around the front axle, right side.
12	7a	Route a 15-foot lashing around the front axle, left side.
13	9	Route a 15-foot lashing through tiedown point #1 on the right side.
14	9a	Route a 15-foot lashing through tiedown point #1 on the left side.
15	11	Route a 15-foot lashing through tiedown point #3 on the right side.
16	11a	Route a 15-foot lashing through tiedown point #3 on the left side.
17	12	Route a 15-foot lashing through tiedown point #3 on the right side.
18	12a	Route a 15-foot lashing through tiedown point #3 on the left side.
19	13	Route a 15-foot lashing around the rear axle, right side.
20	13a	Route a 15-foot lashing around the rear axle, left side.
21	14	Route a 15-foot lashing around the rear axle, right side.
22	14a	Route a 15-foot lashing around the rear axle, left side.

Figure 2-34. Lashings installed (Continued)



Lashing Number	Clevis Number	Instructions
23	15	Route a 15-foot lashing through tiedown point #1 on the right side.
24	15a	Route a 15-foot lashing through tiedown point #1 on the left side.
25	16	Route a 15-foot lashing through tiedown point #2 on the right side.
26	16a	Route a 15-foot lashing through tiedown point #2 on the left side.
27	19	Route a 15-foot lashing around the rear axle on the right side.
28	19a	Route a 15-foot lashing around the rear axle on the left side.
29	22	Route a 15-foot lashing through the rear shackle on the left side.
30	22a	Route a 15-foot lashing through the rear shackle on the right side.
31	24	Route a 15-foot lashing around the rear stabilizer bar on the right side.
32	24a	Route a 15-foot lashing around the rear stabilizer bar on the left side.

Figure 2-34. Lashings installed (Continued)

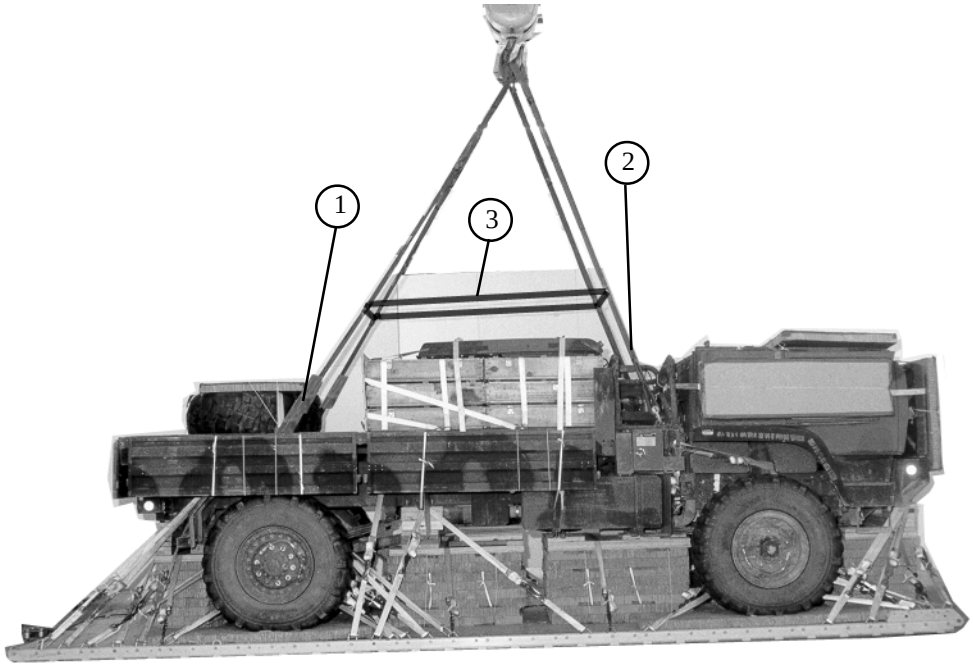


Lashing Number	Clevis Number	Instructions
33	21	Route a 15-foot lashing through tiedown point #4 on the right side.
34	21a	Route a 15-foot lashing through tiedown point #4 on the left side.
35	25	Route a 15-foot lashing through tiedown point #4 on the right side.
36	25a	Route a 15-foot lashing through tiedown point #4 on the left side.
37	26	Route a 15-foot lashing through tiedown point #4 on the right side.
38	26a	Route a 15-foot lashing through tiedown point #4 on the left side.

Figure 2-34. Lashings installed (Continued)

2-26. Installing and Safetying Suspension Slings

Install and safety two 9-foot (4-loop), two 3-foot (4-loop), type XXVI nylon slings and two 11-foot (4-loop), type XXVI nylon slings as shown in *Figure 2-35.*



(1) Attach a 9-foot (4-loop), type XXVI sling to the rear lifting points with a clevis screw pin. Attach a 3-foot (4-loop), type XXVI sling to each of the rear slings with a 5 1/2-inch two-point link. Wrap with felt and tape the links.

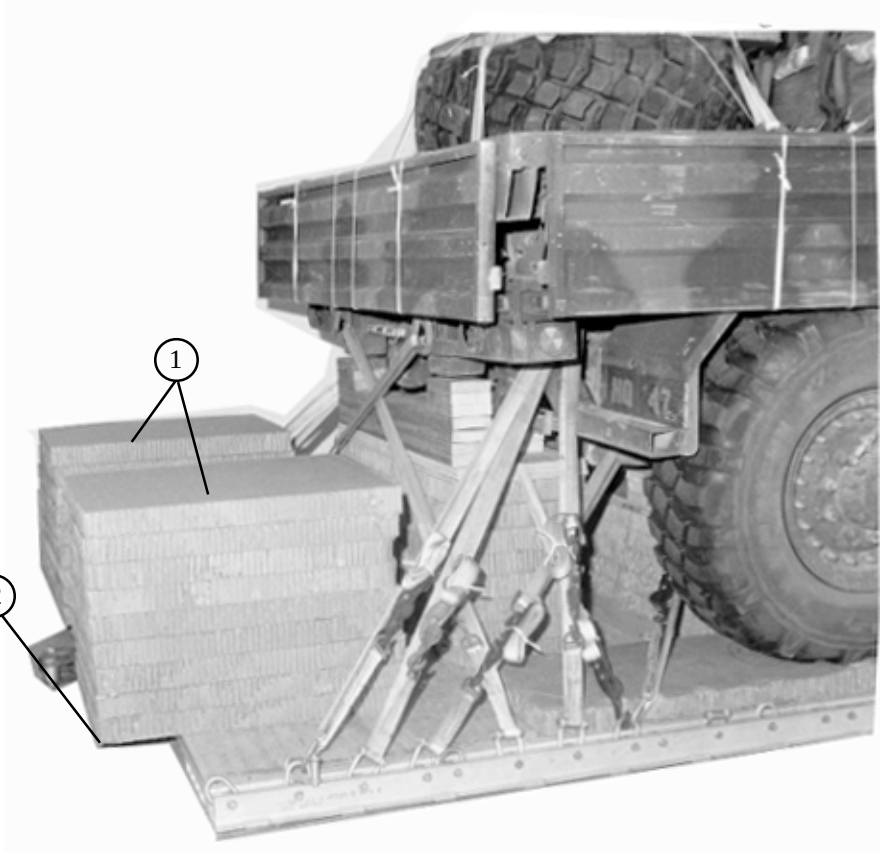
(2) Attach a 11-foot (4-loop), type XXVI sling to each of the front lifting points with a clevis screw pin.

(3) Raise the slings and install the deadman's tie according to FM 10-500-2/TO 13C7-1-5.

Figure 2-35. Suspension slings installed and safetied

2-27. Building and Positioning the Parachute Stowage Platform

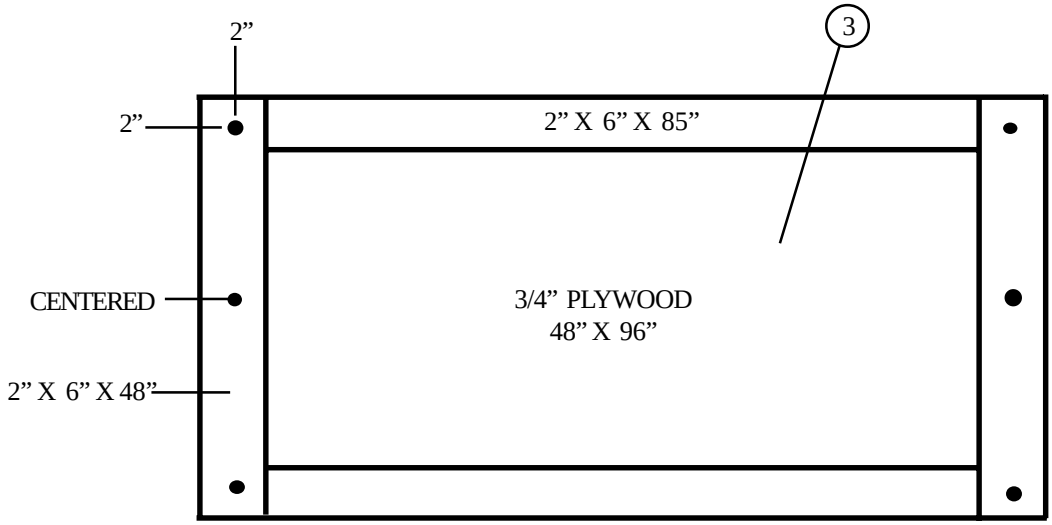
Build and position the parachute stowage platform as shown in *Figure 2-36.*

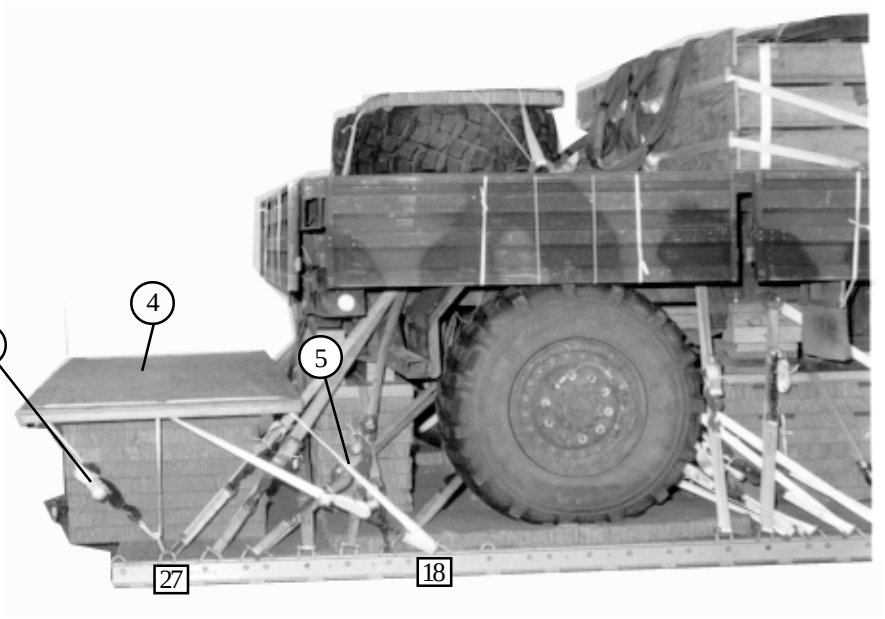


1. Cut eighteen pieces of 24- by 36-inch honeycomb. Glue nine layers of honeycomb together forming a stack. Repeat forming the second stack.
2. Position each stack 22-inches apart and with a 10-inch overhang. Cut a channel in the left stack so that the EFTC cable will route through it.

Figure 2-36. Cargo stowage platform positioned

Note: This drawing is not drawn to scale.





(3) Construct a stowage platform as shown, using one sheet of 3/4-inch plywood.

(4) Center the stowage platform on the honeycomb stacks and flush against the lashings.

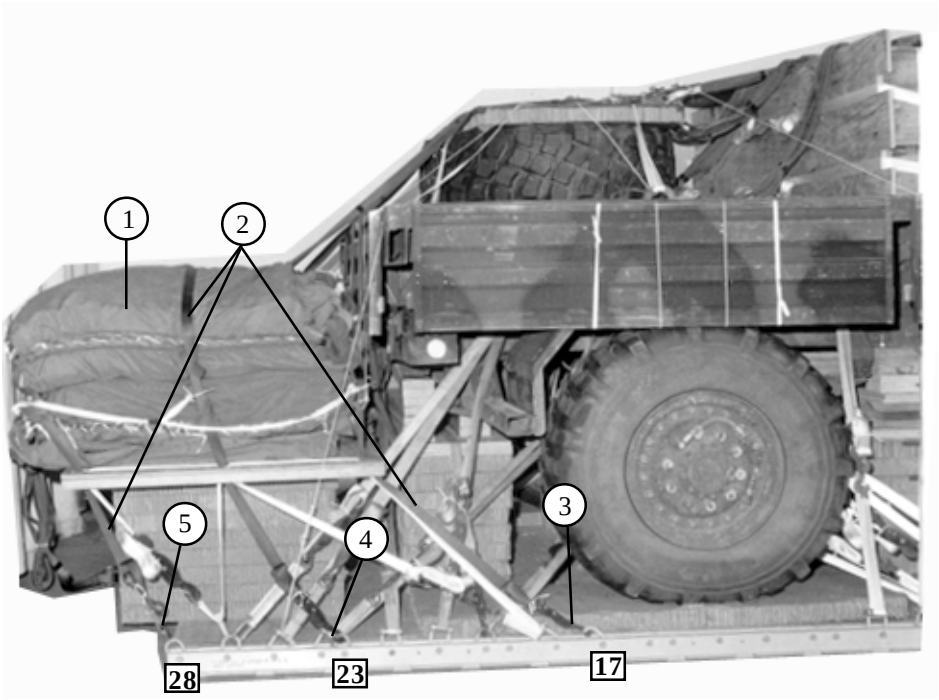
(5) Route a lashing through clevis 18, through the front right hole in the stowage platform, and through the center right hole. Secure with a loadbinder. Repeat using clevis 18A for the left side.

(6) Route a lashing through clevis 27, through the center right hole in the stowage platform, and through the rear right hole. Secure with a loadbinder. Repeat using clevis 27A for the left side.

Figure 2-36. Cargo stowage platform positioned (Continued)

2-28. Stowing Cargo Parachutes

Stow six G-11 cargo parachutes as shown in *Figure 2-37.*

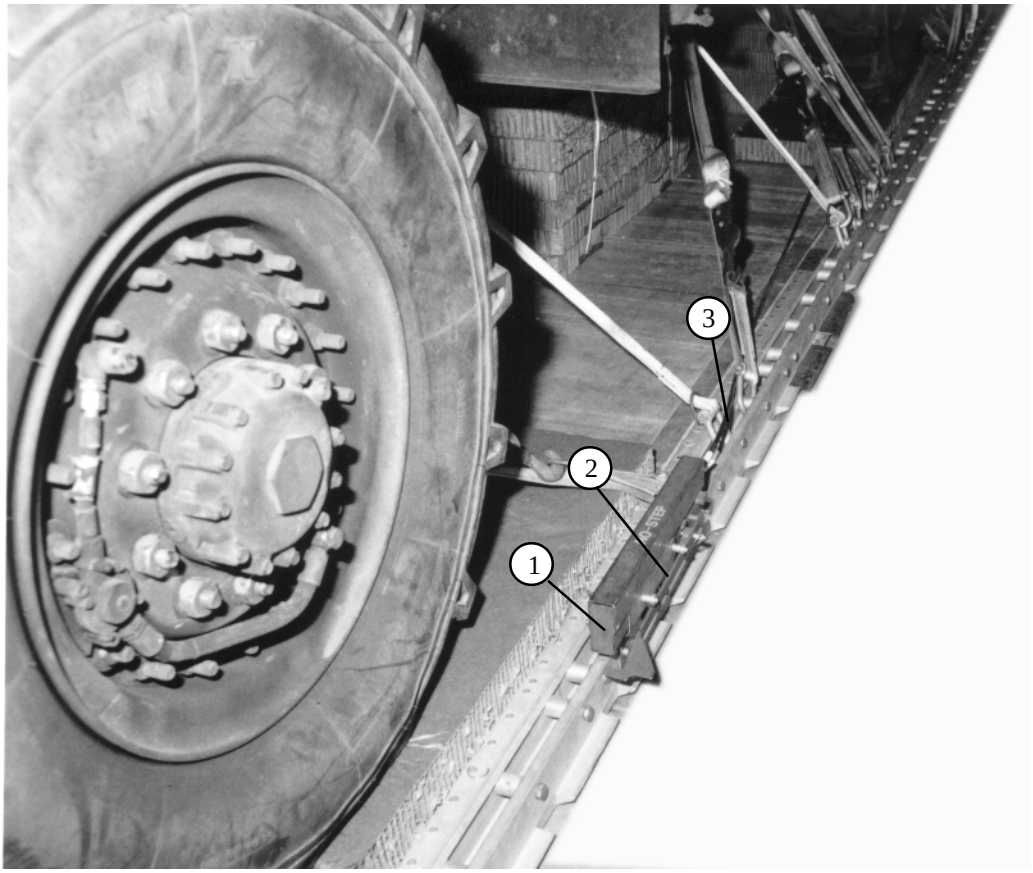


1. Prepare, cluster and place six G-11 parachutes on the parachute stowage platform according to FM 10-500-2/TO 13C7-1-5.
2. Install parachute restraints according to FM 10-500-2/TO 13C7-1-5.
3. Secure the aft restraint to clevis 17 right side. Repeat for the left side using clevis 17a.
4. Secure the center restraint to clevis 23 right side. Repeat for the left side using clevis 23a.
5. Secure the rear restraint to clevis 28 right side. Repeat for the left side using clevis 28a.

Figure 2-37. Cargo parachutes stowed

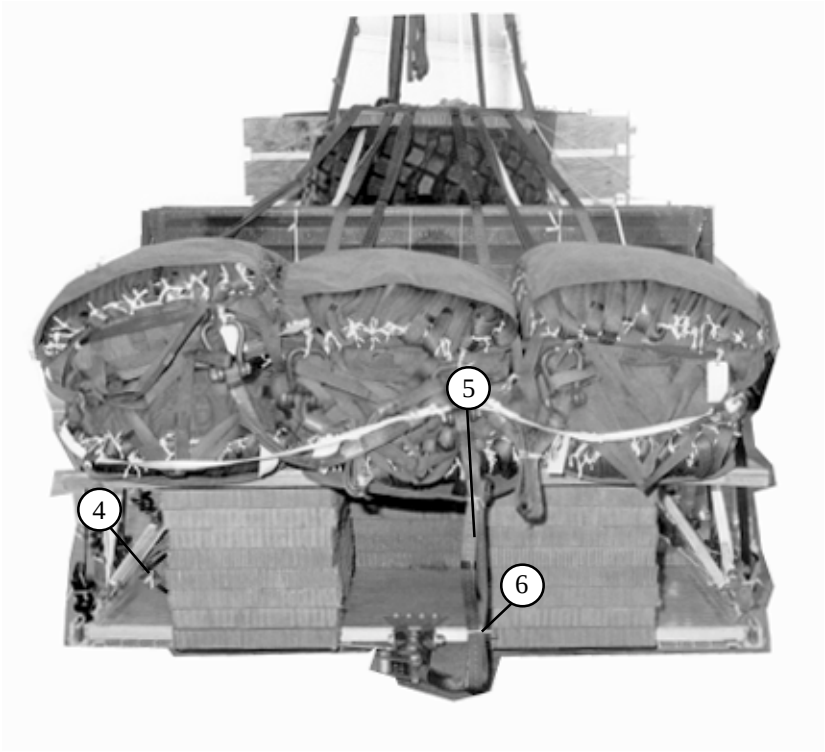
2-29. Installing Extraction System

Install the components of the extraction force transfer coupling (EFTC) according to FM 10-500-2/TO 13C7-1-5 and as shown in *Figure 2-38.*



1. Install the EFTC according to FM 10-500-2/TO 13C7-1-5.
2. Install the EFTC mounting brackets in the rear mounting holes in the left platform rail.
3. Attach a 20-foot release cable to the actuator. Install the actuator in the EFTC mounting bracket.

Figure 2-38. Extraction system installed



(4) Safety the release cable with type I, 1/4-inch cotton webbing to the platform bushing or deck-rings.

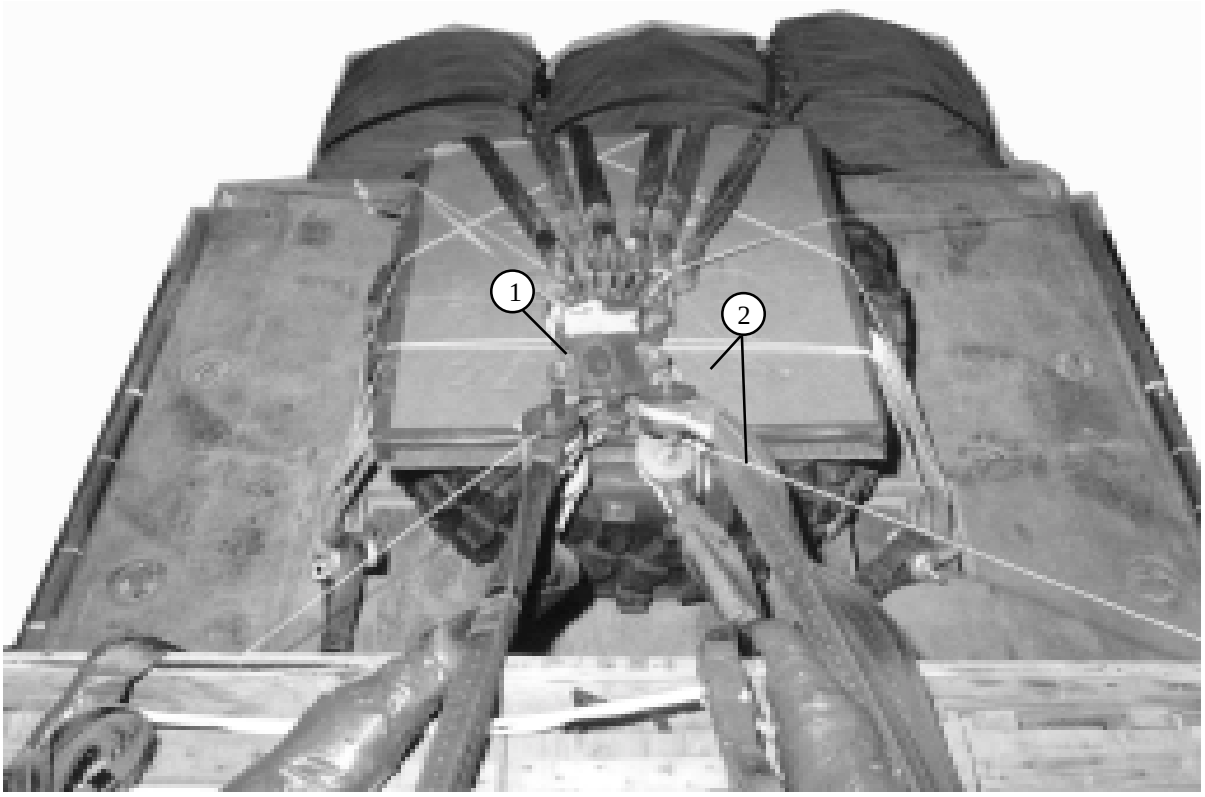
(5) Attach a 9-foot (2-loop), type XXXVI nylon sling, for use as a deployment line.

(6) S-fold and secure the folds with type I, 1/4-inch cotton webbing according to FM 10-500-2/TO 13C7-1-5.

Figure 2-38. Extraction system installed (Continued)

2-30. Installing Release System

Install an M-2 cargo parachute release according to FM 10-500-2/TO 13C7-1-5 and as shown in *Figure 2-39.*



(1) Prepare an M-2 parachute release according to FM 10-500-2/TO 13C7-1-5.

(2) Place the M-2 parachute release on the spare tire honeycomb and safety it using type III nylon cord to convenient places on the load.

(3) Fold and tie any slack in the suspension slings with type III nylon cord. (Not shown)

Figure 2-39. Parachute release installed

2-31. Installing Provisions for Emergency Restraints

Select and install provisions for emergency restraints according to the emergency restraint requirements table found in FM 10-500-2/TO 13C7-1-5.

2-32. Placing Extraction Parachute

Select the extraction parachute and extraction parachute line needed using the extraction parachute and extraction line requirements table found in FM 10-500-2/TO 13C7-1-5.

2-33. Marking the Rigged Load

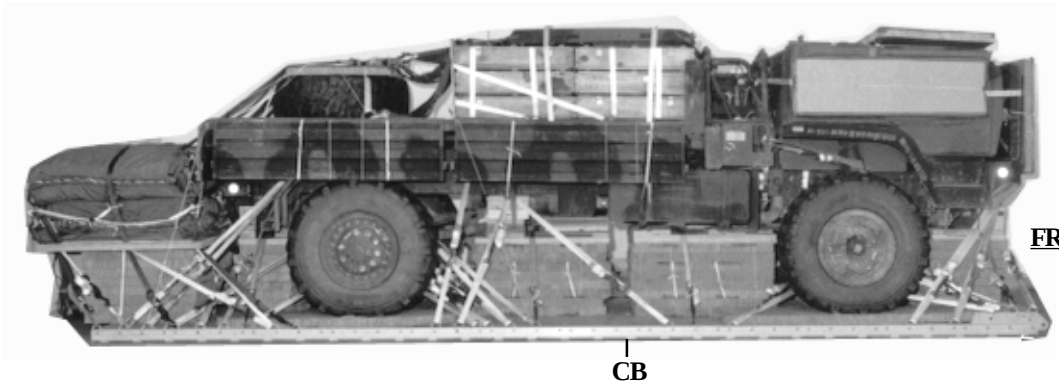
Mark the rigged load according to FM 10-500-2/TO 13C7-1-5 and as shown in *Figure 2-40.* Complete Shipper's Declaration for Dangerous Goods and affix to load. If the load varies from the one shown, the weight, height, CB, tip-off curve and parachute requirements must be recomputed.

2-34. Equipment Required

Use the equipment listed in *Table 2-4* to rig this load.

CAUTION

Make the final rigger inspection required by FM 10-500-2/TO 13C7-1-5 before the load leaves the rigging site.



RIGGED LOAD DATA

Weight: Load shown		**28,014 pounds**
Minimum weight:		**27,500 pounds**
Maximum weight:		**28,500 pounds**
Height:		**97 inches**
Width:		**108 inches**
Length:		**315 inches**
Overhang:	**Front:**	**0 inches**
	Rear:	**27 inches**
Center of Balance: (from the front edge of the platform)		**137 inches**
Extraction System		**EFTC**

Figure 2-40. M1081, 2 1/2-ton cargo truck rigged for low-velocity airdrop

Table 2-4. Equipment required for rigging the M1081, 2 1/2-ton cargo truck for low-velocity airdrop on a type V platform

National Stock Number	Item	Quantity
8040-00-273-8713	Adhesive, paste, 1-gal	As required
N/A	Bolts, 1/2- by 10 inch, (nuts and washers)	4
1670-01-035-6054	Bridle, extraction line bag (Use with extraction line bag)	1
4030-00-432-2516	Clevis, screw pin	4
4030-00-090-5354	Clevis, suspension, 1-in (large)	8
4030-00-678-8562	Clevis, suspension, 1-in (medium)	2
4020-00-240-2164	Cord, nylon, type III, 550-lb	As required
1670-00-360-0328	Cover, clevis, large	6
1670-00-360-0329	Cover, link (type IV)	6
1670-00-434-5782	Coupling, airdrop, extraction force transfer w/20-ft cable	1
8135-00-664-6958	Cushioning material, packaging, (cellulose wadding)	As required
8305-00-958-3685	Felt, 1/2-in thick	As required
1670-01-183-2678	Leaf, extraction line	1
	Line, extraction, type XXVI nylon webbing:	
1670-01-062-6313	60-ft (6-loop), (C-130 aircraft)	1
5510-00-220-6148	60-ft (1-loop), drogue	1
1670-01-220-6248	120-ft (6-loop), (dual parachutes), (C-141, C-5 aircraft)	1
1670-01-468-9178	140-ft (6-loop), (C-17 aircraft)	1
	Truck preparation	
	Lumber:	
5510-00-220-6146	2- by 4- by 6	2
5510-00-220-6148	2- by 6- by 6	1
	2- by 6- by 13	1
5510-00-220-6274	4- by 4- by 6	2
	4- by 4- by 15	2

Table 2-4. Equipment required for rigging the M1081, 2 1/2-ton cargo truck for low-velocity airdrop on type V platform (continued)

National Stock Number	Item	Quantity
	Link assembly:	
1670-00-006-2752	Four-point:	1
	Two-point:	
5305-00-435-8994	Bolt, 1-in diam, 4-in long	(2)
5310-00-232-5165	Nut, 1-in	(2)
1670-00-003-1954	Plate, side, 5 1/2-in	(2)
5365-00-007-3414	Spacer, large	(2)
1670-00-783-5988	Type IV	6
1670-01-247-2389	Link, suspension tandem	2
	Load spreader for honeycomb stack 1:	
5510-00-220-6246	Lumber:	
	2- by 8- by 12-in	4
	2- by 8- by 43-in	3
5510-00-220-6448	Plywood 3/4-in:	
	7- by 14-in	4
	7 1/2- by 12-in	4
	24- by 43	3

Table 2-4. Equipment required for rigging the M1081, 2 1/2-ton cargo truck for low-velocity airdrop on a type V platform (continued)

National Stock Number	Item	Quantity
	Load spreader for honeycomb stack 2:	
5510-00-220-6148	Lumber, 2- by 6- by 18-in	2
5530-00-128-4981	Plywood, 3/4-in:	
	5 1/2- by 18-in	2
	18- by 48-in	2
	Load spreader for honeycomb stack 3:	
5510-00-220-6246	Lumber, 2- by 8- by 26 1/2-in	2
5530-00-129-7777	Plywood, 1/2-in:	
	7 1/2- by 26 1/2-in	1
5510-00-128-4981	Plywood, 3/4-in:	
	6- by 8-in	1
	7 1/2- by 8-in	2
	8- by 16-in	1
	10- by 10-in	1
	12- by 14-in	4
	46- by 48-in	4
	Load spreader for honeycomb stack 4:	
	Lumber:	
5510-00-220-6148	2- by 6- by 21-in	6
	2- by 6- by 48-in	1
5510-00-220-6250	2- by12- by 12-in	4
	2- by 12- by 34- in	2
5510-00-220-6448	Plywood 3/4-in:	
	11 1/2- by 12-in	4
	44- by 48-in	3

Table 2-4. Equipment required for rigging the M1081, 2 1/2-ton cargo truck for low-velocity on type V airdrop platform (continued)

National Stock Number	Item	Quantity
	Load spreader for honeycomb stack 5:	
5510-00-220-6148	Lumber, 2- by 6- by 18-in	2
5530-00-128-4981	Plywood, 3/4-in:	
	5 1/2- by 18-in	6
	18- by 60-in	2
	Load spreader for honeycomb stack 6:	
	Lumber:	
5510-00-220-6148	2- by 6- by 8-in	6
	2- by 6- by 33-in	3
	2- by 6- by 45-in	4
5530-00-128-4981	Plywood, 3/4-in:	
	18- by 48-in	3
	Nail, steel wire, common:	
5315-00-010-4659	8d	As required
5315-00-753-3885	16d	As required
1670-00-753-3928	Pad, energy-dissipating, honeycomb,	
	3- by 36- by 96-in:	40 sheets
	4- by 6-in	1
	12- by 30-in	1
	12- by 31-in	12
	18- by 44-in	24
	18- by 48-in	13
	18- by 60-in	2
	24- by 34-in	4
	36- by 44-in	4
	36- by 80-in	1
	36- by 96-in	10
	43- by 20-in	5
	74- by 18-in	2
	43- by 30-in	2
	96- by 18-in	2

Table 2-4. Equipment required for rigging the M1081, 2 1/2-ton cargo truck for low-velocity airdrop on a type V platform (continued)

National Stock Number	Item	Quantity
	Parachute, cargo:	
1670-01-016-7841	G-11C	6
	Parachute, cargo extraction:	
1670-00-040-8135	28-ft	2
1670-01-063-3715	15-ft	1
	Platform, AD, type V, 24-ft	1
1670-01-353-8425	Bracket assembly comp	(1)
1670-01-162-2372	Clevis, load tiedown	(56)
1670-01-353-8424	Extraction bracket assembly	(1)
1670-01-162-2381	Tandem link	(2)
1670-01-097-8817	Release, cargo parachute, M-2	1
	Sling, cargo, airdrop:	
	For deployment line:	
1670-01-062-6304	9-ft (2-loop), type XXVI nylon webbing	1
	For lifting and suspension:	
1670-01-062-6306	3-ft (4-loop), type XXVI nylon webbing	2
1670-01-062-6305	9-ft (4-loop), type XXVI nylon webbing	2
1670-01-062-6310	11-ft (4-loop), type XXVI nylon webbing	2
	For riser extention:	
1670-01-062-6311	120-ft (2-loop), type XXVI nylon webbing	6

Table 2-4. Equipment required for rigging the M1081, 2 1/2-ton cargo truck for low-velocity airdrop on a type V platform (continued)

National Stock Number	Item	Quantity
5340-00-040-8219	Strap, parachute release, multi-cut with 3 knives	2
7510-00-266-5012	Tape, adhesive, 2-in (masking)	As required
7510-00-079-7906	Tape, adhesive, 2-in (pressure sensitive)	As required
1670-00-937-0271	Tiedown assembly, 15-ft	73
	Webbing:	
8305-00-268-2411	Cotton, 80-lb	As required
8305-00-082-5752	Nylon, tubular, 1/2-in, 1,000-lb natural	As required
8305-00-263-3591	Type VIII	As required

CHAPTER 3

RIGGING M1093, 5-TON 6x6 STANDARD CARGO TRUCK ON A 28-FOOT TYPE V PLATFORM FOR LOW-VELOCITY AIRDROP

RIGGING M1093, 5-TON CARGO TRUCK WITH BASIC LOAD

3-1. Description of Load

The M1093, 5-ton cargo truck (*Figure 3-1*) is rigged on a 28-foot, type V airdrop platform with six G-11 cargo parachutes and other items of airdrop equipment.

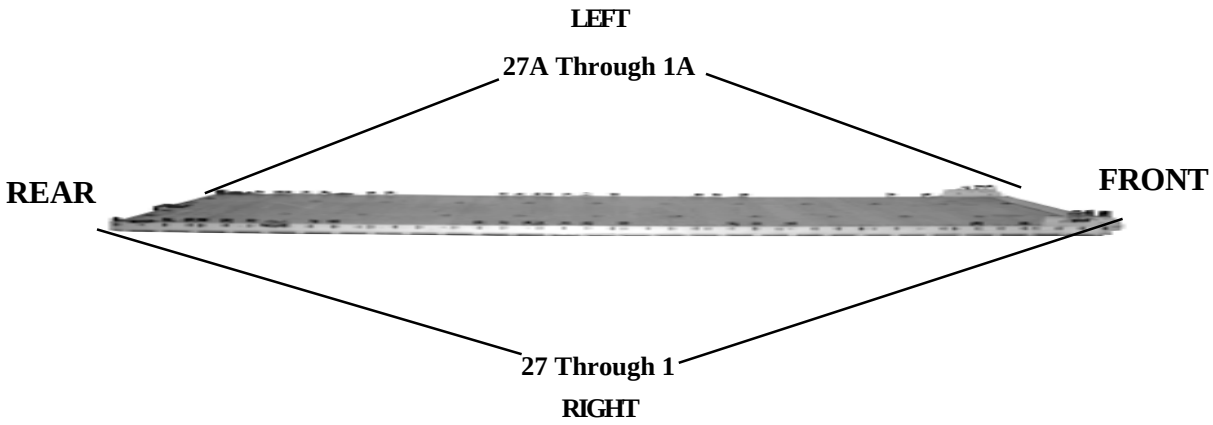
The load consists of the M1093, 5-ton cargo truck and basic load. This load is 100 inches in height, 108 inches in width, 354 inches in length and has a rigged weight of 27,318 pounds.

Figure 3-1. M1093, 5-ton 6x6 standard cargo truck

3-2. Preparing Platform

Prepare a 28-foot, type V platform as described below and as shown in *Figure 3-2.*

NOTES:
1. **The nose bumper may or may not be installed.**
2. **Measurements given in this section are from the front edge of the platform NOT from the front edge of the nose bumper.**



Step:

1. Inspect, or assemble and inspect, a 28-foot, type V airdrop platform as outlined in TM 10-1670-268-20&P/ TO 13C7-52-22.
2. Install a tandem link on the front of each platform side rail using holes 1, 2, and 3.
3. Attach clevises to each tandem link using bushings 1, 2, and 3 (tripled).
4. Starting at the front of each platform side rail, install clevises using bushings bolted to holes 7, 10, 12, 13, 21, 22, 23, 24, 25, 26, 27, 29, 30, 31, 42, 43, 45, 46, 47, 48, 49, 52 and 56.
5. Starting at the front of the platform, number the clevises bolted to the right rail 1 through 27 and the left rail 1A through 27A.

Figure 3-2. Platform Prepared

3-3. Preparing Honeycomb Stacks

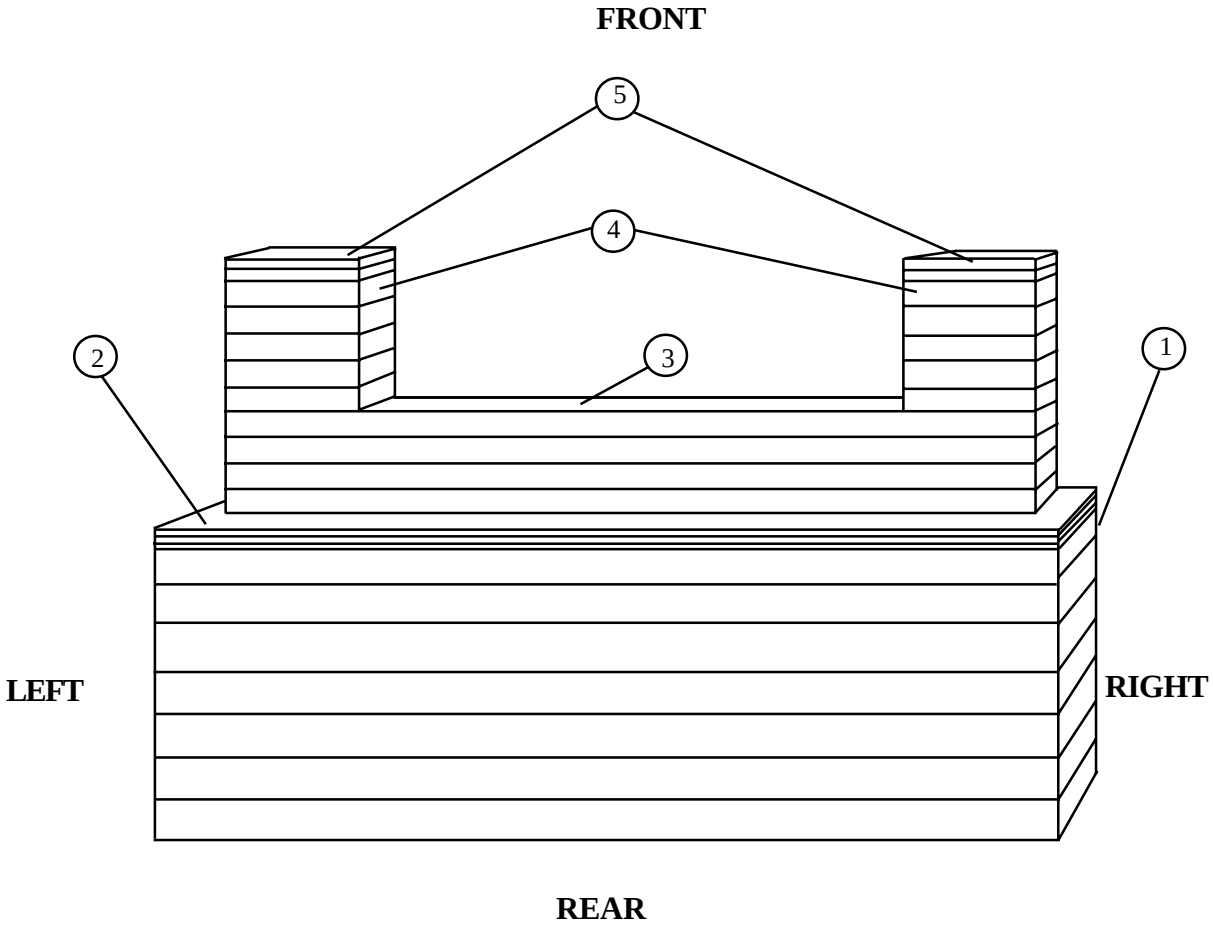
Use the material in *Table 3-1* to prepare 10 honeycomb stacks as shown in *Figures 3-3 through 3-10*.

Table 3-1. Material needed to build honeycomb stacks

Stack Number	Pieces	Width (Inches)	Length (Inches)	Material	Instructions
1	7	48	18	Honeycomb	See *Figure 3-3*.
	3	48	18	3/4-inch plywood	
	4	2- by 6	45	Lumber	
	10	2- by 6	8	Lumber	
	3	2- by 6	33	Lumber	
	4	2- by 6	10	Lumber	
	4	8	5 1/2	1/2-inch plywood	
	1	10	5 1/2	1/2-inch plywood	
2	5	43	20	Honeycomb	See *Figure 3-4*.
	3	43	20	3/4-inch plywood	
	3	2- by 8	20	Lumber	
	1	7 1/2	20	3/4-inch plywood	
3	5	48	18	Honeycomb	See *Figure 3-5*.
	3	48	18	3/4-inch plywood	
	2	4- by 4	48	Lumber	
	2	2- by 4	11	Lumber	
	2	11	6	3/4-inch plywood	
4	2	36	44	Honeycomb	See *Figure 3-6*.
	2	12	44	Honeycomb	
	12	18	44	Honeycomb	
	6	12	36	Honeycomb	
	3	48	44	3/4-inch plywood	
	1	2- by 6	48	Lumber	
without winch	**2**	2- by 6	21	Lumber	
with winch	**3**	2- by 6	21	Lumber	
	2	5 1/2	21	3/4-inch plywood	
	4	2- by 12	12	Lumber	
	2	12	11 1/2	3/4-inch plywood	
	2	2- by 12	38 1/2	Lumber	

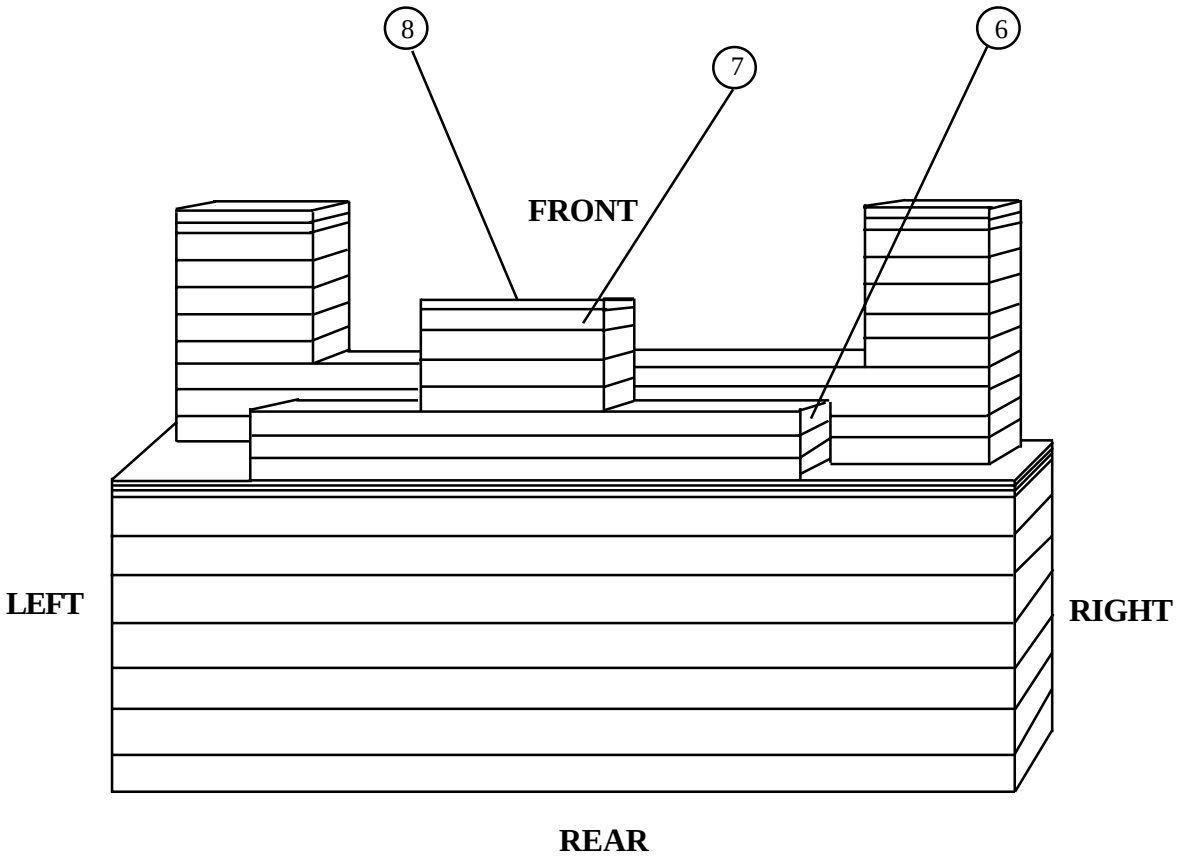
Table 3-1. Material needed to build honeycomb stacks (continued)

Stack Number	Pieces	Width (Inches)	Length (Inches)	Material	Instructions
5	2	36	46	Honeycomb	See *Figure 3-7.*
	2	12	46	Honeycomb	
	12	18	46	Honeycomb	
	6	12	36	Honeycomb	
	3	48	46	3/4-inch plywood	
	6	14	12	3/4-inch plywood	
	2	2- by 8	26 1/2	Lumber	
	1	7 1/2	26 1/2	3/4-inch plywood	
	1	7 1/2	8	3/4-inch plywood	
	1	10	10	3/4-inch plywood	
	1	8	6	3/4-inch plywood	
	1	8	16	3/4-inch plywood	
6	8	43	24	Honeycomb	See *Figure 3-8.*
	3	43	24	3/4-inch plywood	
	3	2- by 8	43	Lumber	
	4	2- by 8	12	Lumber	
	4	7 1/2	12	3/4-inch plywood	
	4	14	7	3/4-inch plywood	
7	1	18	96	Honeycomb	See *Figure 3-9.*
8	1	18	96	Honeycomb	See *Figure 3-9.*
9	1	18	74	Honeycomb	See *Figure 3-10.*
10	1	18	74	Honeycomb	See *Figure 3-10.*



1. Glue seven 48- by 18-inch pieces of honeycomb together to form a base.
2. Glue and nail three 48- by 18-inch pieces of 3/4-inch plywood together. Glue the plywood to the top of the base.
3. Glue and nail four 2- by 6- by 45-inch pieces of lumber together. Center, glue, and nail the lumber flush with the front edge of the plywood.
4. Glue and nail two 5 piece stacks of 2- by 6- by 8-inch lumber. Glue and nail one stack on the right edge of the lumber and the other stack on the left edge of the 45-inch lumber.
5. Glue and nail two 2 piece stacks of 8- by 5 1/2-inch pieces of 1/2-inch plywood. Glue and nail on the top right side of each 2- by 6- by 8-inch piece of lumber in step 4.

Figure 3-3. Stack 1 prepared

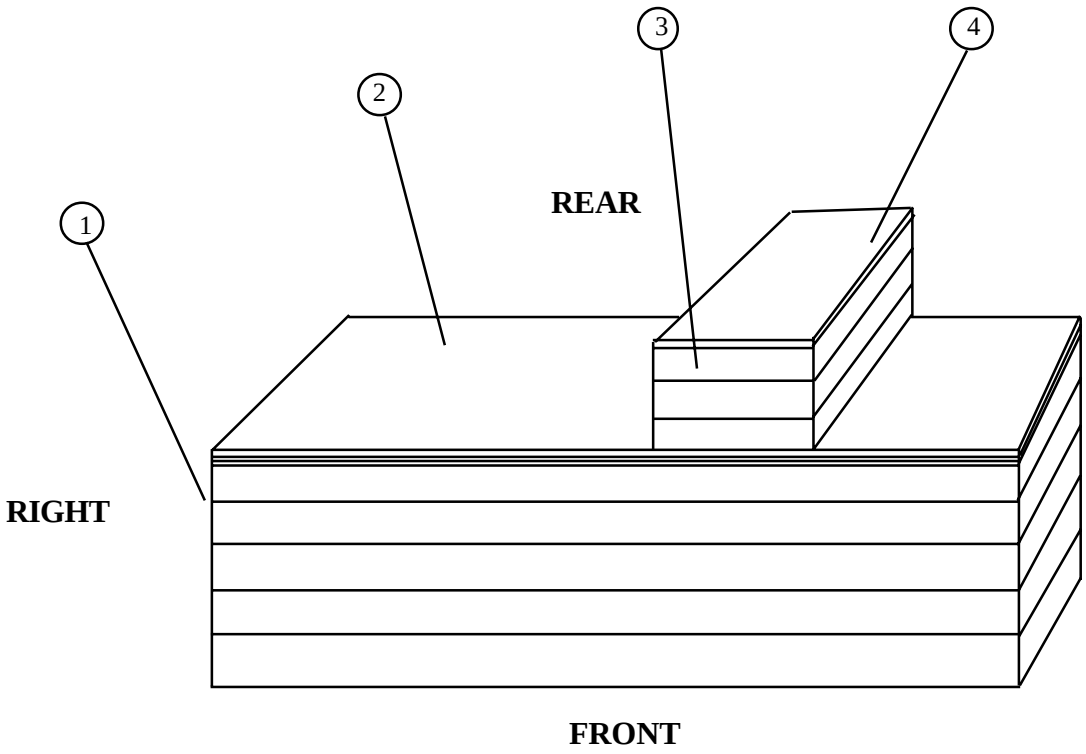


(6) Glue, center and nail flush with the rear of the 45-inch stack, three 2- by 6- by 33-inch pieces of lumber.

(7) Glue, center and nail four 2- by 6- by 10-inch pieces of lumber on the 2- by 6- by 33-inch pieces of lumber.

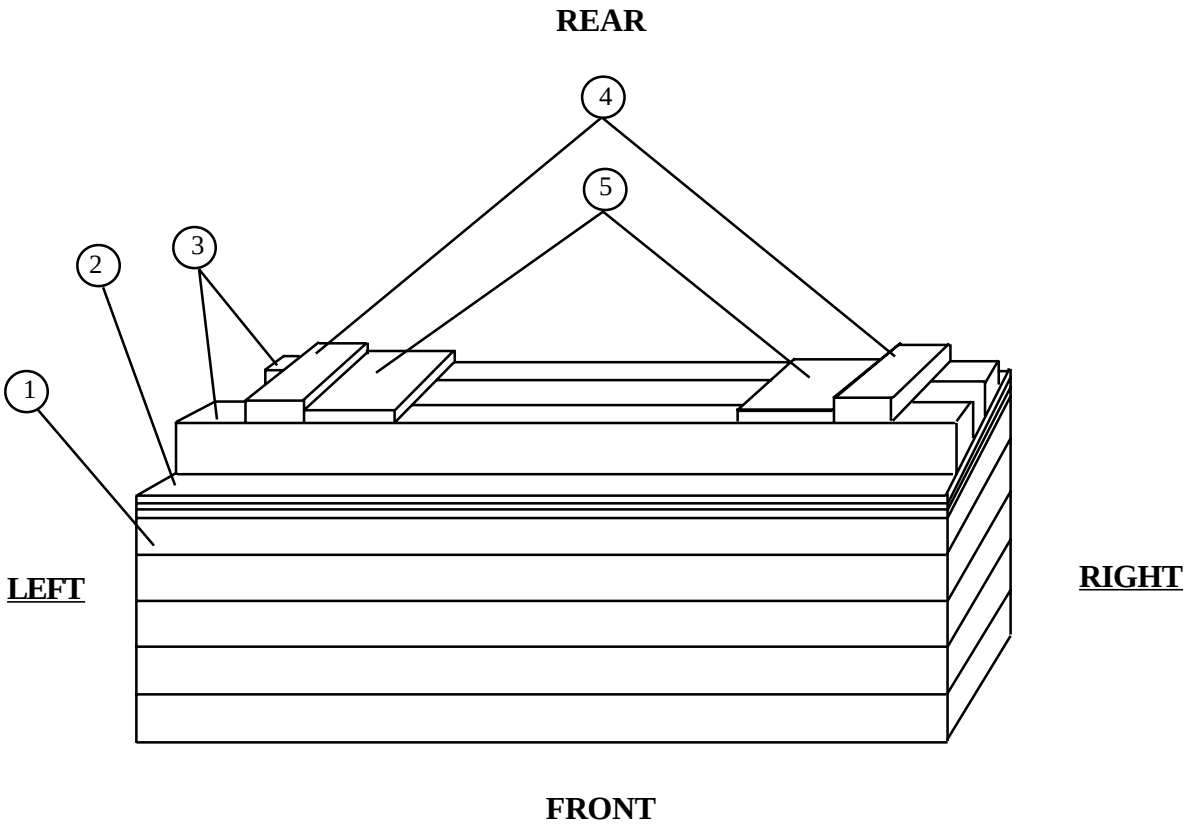
(8) Glue, center and nail a 10- by 5 1/2-inch piece of 1/2-inch plywood on top of the 2- by 6- by 10-inch pieces of lumber.

Figure 3-3. Stack 1 prepared (Continued)



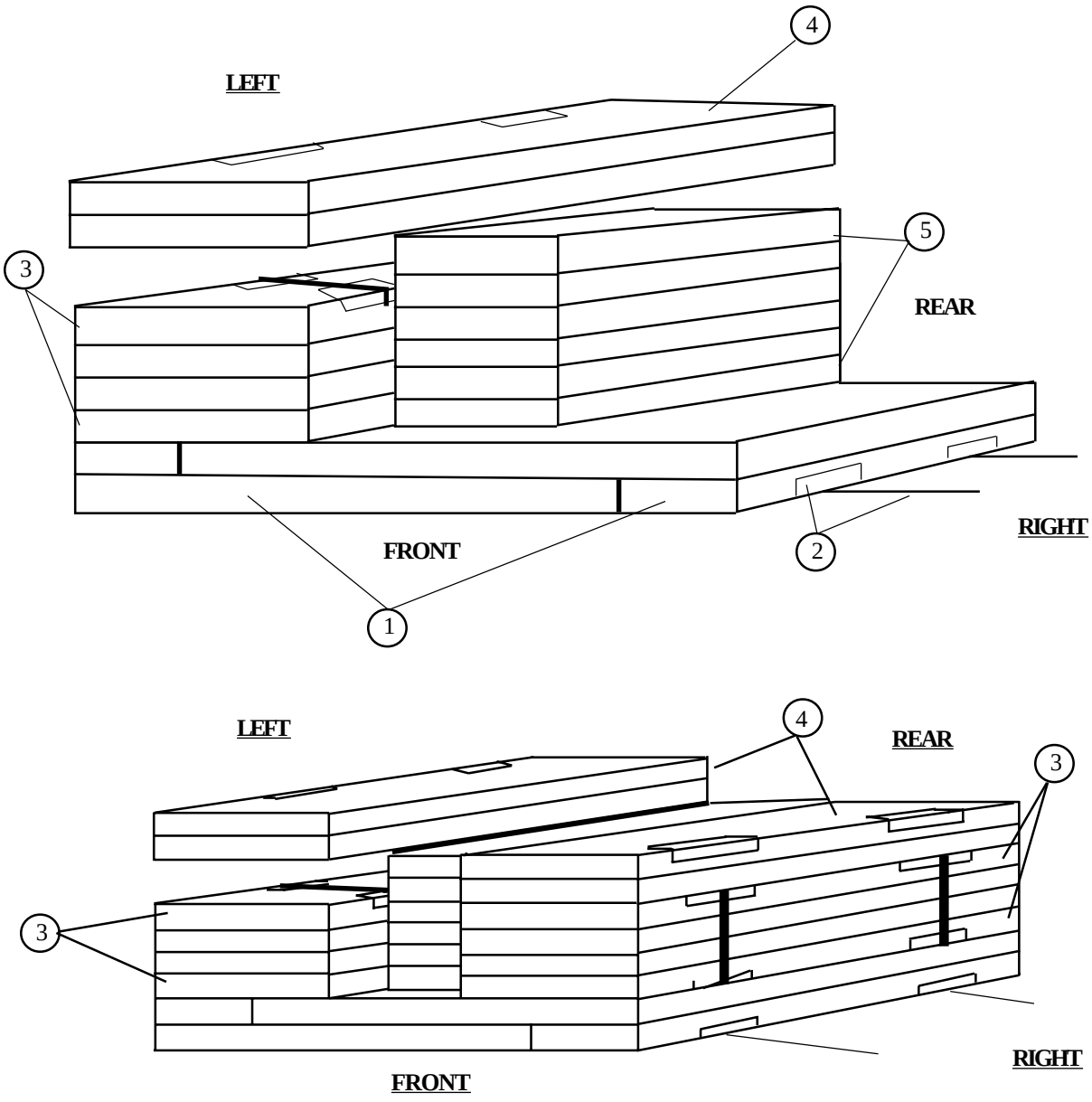
1. Glue five 43- by 20-inch pieces of honeycomb together to form the base.
2. Glue, center, and nail three 43- by 20-inch pieces of 3/4-inch plywood on top of the base.
3. Glue and nail three 2- by 8- by 20-inch pieces of lumber 13 inches from the left edge of the plywood.
4. Glue and nail a 7 1/2- by 20-inch piece of 3/4-inch plywood on top of the three 2- by 8- by 20-inch pieces of lumber.

Figure 3-4. Stack 2 prepared



1. Glue five 48- by 18-inch pieces of honeycomb together to form a base.
2. Glue and nail three 48- by 18-inch pieces of 3/4-inch plywood together. Glue the plywood to the top of the base.
3. Glue and nail two 4- by 4- by 48-inch pieces of lumber each 3 1/2 inches from the front and rear edge of the plywood.
4. Glue and nail two 2- by 4- by 11-inch pieces of lumber 2 inches from the left and right edges of the 4- by 4- by 48-inch piece of lumber.
5. Glue and nail two 11- by 6-inch pieces of 3/4-inch plywood flush with the edges of the 4- by 4- by 48-inch piece of lumber and flush against the 2- by 4- by 11-inch piece of lumber.

Figure 3-5. Stack 3 prepared



1. Position a 36- by 44-inch piece of honeycomb beside a 12- by 44-inch piece of honeycomb. Glue a 36- by 44-inch piece of honeycomb and a 12- by 44-inch piece of honeycomb on top of the first layer. Alternate them to form the base.

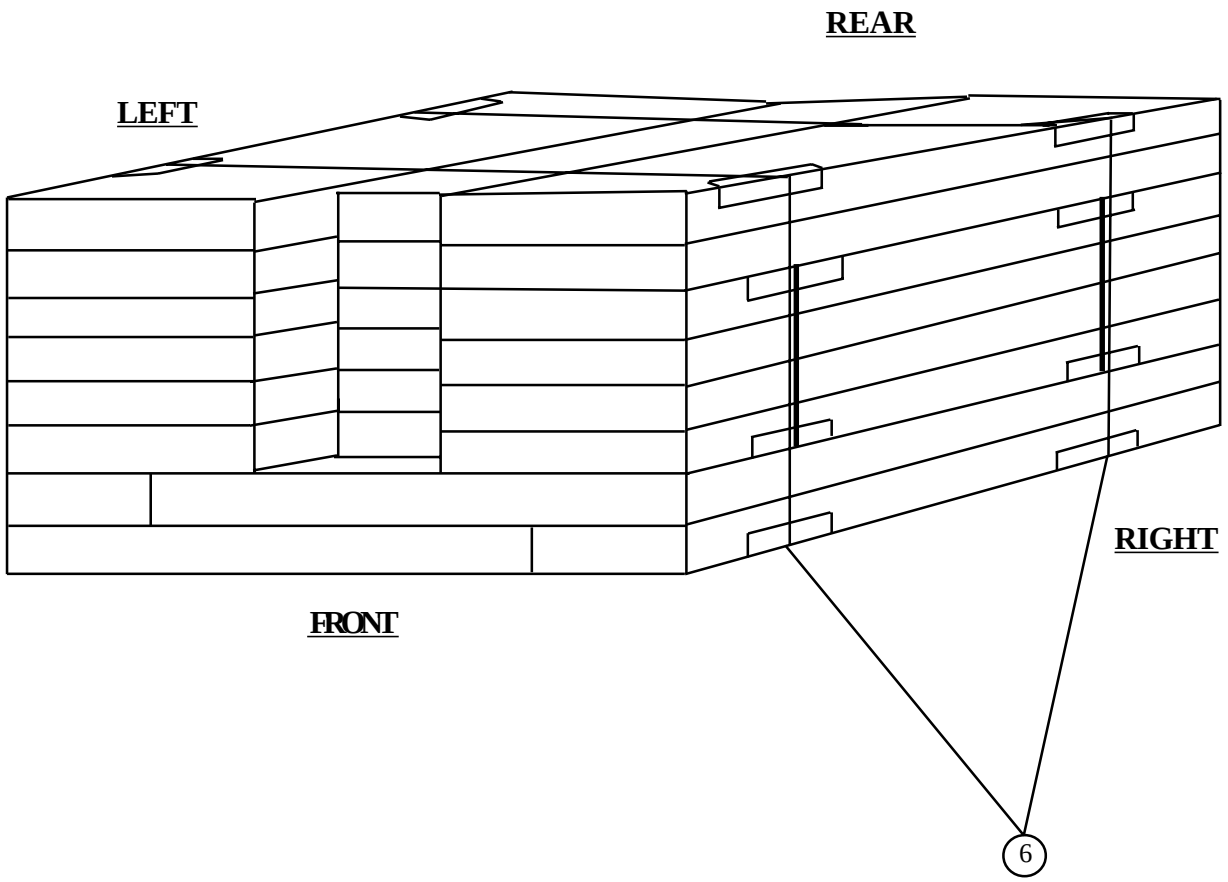
2. Place a length of cloth backed tape on the bottom outer edges of the base. Position two 13-foot lengths of type III nylon cord under the base aligned with the strips of tape.

3. Form two stacks by gluing four pieces of 18- by 44-inch honeycomb together. Place a sufficient length of cloth backed tape on all edges. Run a length of 1/2-inch tubular nylon over the strips of tape and around the stack. Secure and tie with a square knot on the outside of the stack. Place the stack flush with the base. **(Do not glue to base.) (The 1/2-inch tubular nylon ties, PULL-OUT AIDS, are to assist in pulling the stacks out from under the vehicle during derigging.)**

4. Form two stacks by gluing two pieces of 18- by 44-inch honeycomb together. Place a length of cloth backed tape on each end. Position each stack on top of the existing stacks. **(Do not glue.)**

5. Form a stack by gluing six 12- by 36-inch pieces of honeycomb together. Position the stack between the two stacks in step 4, flush with the rear edge of the base. **(Do not glue to base.)**

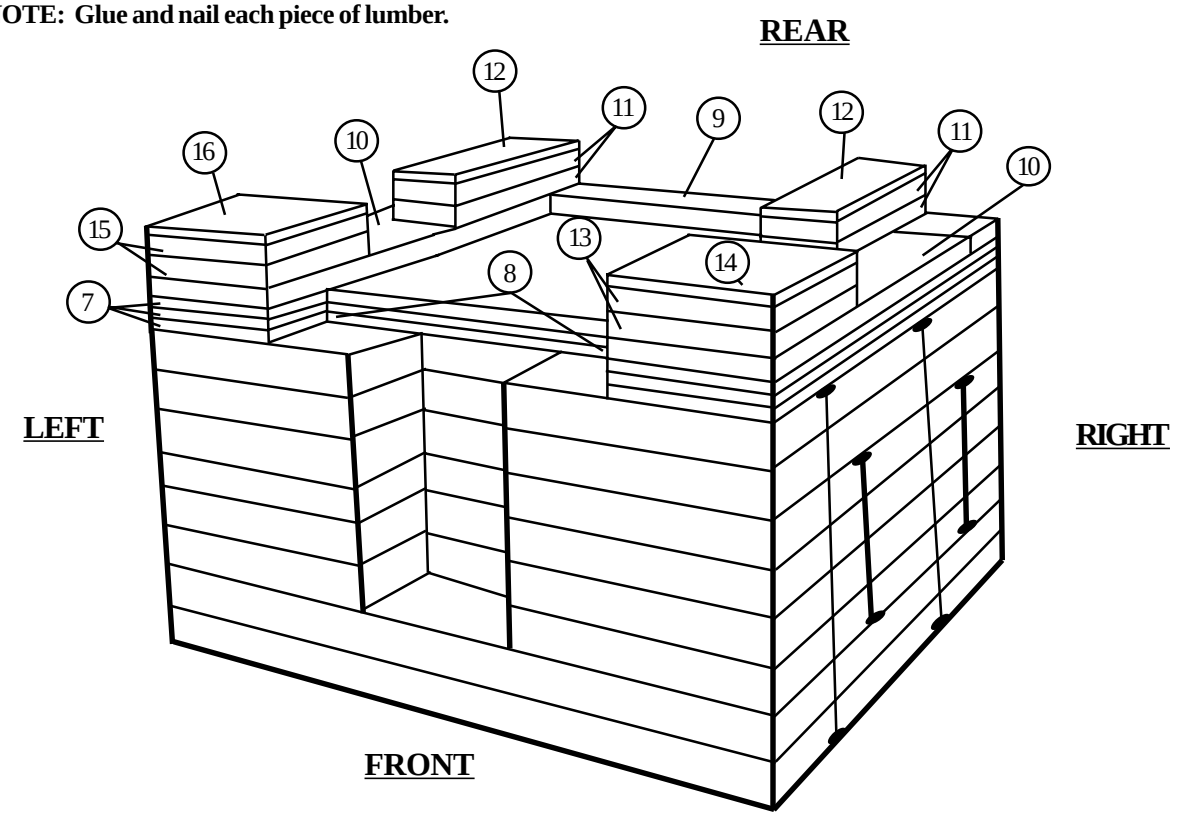
Figure 3-6. Stack 4 prepared



6 Secure and tie the type III nylon cord around the completed honeycomb stack.

Figure 3-6. Stack 4 prepared (Continued)

NOTE: Glue and nail each piece of lumber.



(7) Glue and nail three 48- by 44-inch pieces of 3/4-inch plywood together. **(Do not build lumber stack on honeycomb stack. The lumber will be placed on the stack later.)**

(8) Cut a 26-inch long, 7-inch deep cutout in the center of the 48-inch side of the plywood.

(9) Glue and nail one 2- by 6- by 48-inch piece of lumber flush along the rear left edge of the plywood.

(10) Glue and nail one 2- by 12- by 38 1/2-inch piece of lumber flush with left side and another on the right side of the plywood and the end flush against the 2- by 6- by 48-inch piece of lumber in step 9.

(11) Glue and nail two 2- by 6- by 21-inch pieces of lumber flush with the right inside edge of the 2- by 12- by 38 1/2-inch lumber and flush with the rear of the 2- by 6- by 48-inch piece of lumber. Glue and nail two pieces flush with the left inside edge of the 2- by 12- by 38 1/2-inch lumber and flush with the rear of the 2- by 6- by 48-inch piece of lumber. **Stack shown is for truck without winch. When truck has a winch, use three 2- by 6- by 21-inch pieces of lumber glued to the outside on the left side instead of two.**

(12) Center, glue and nail one 5 1/2- by 21-inch piece of 3/4-inch plywood on top of each of the two pieces of lumber in step 11.

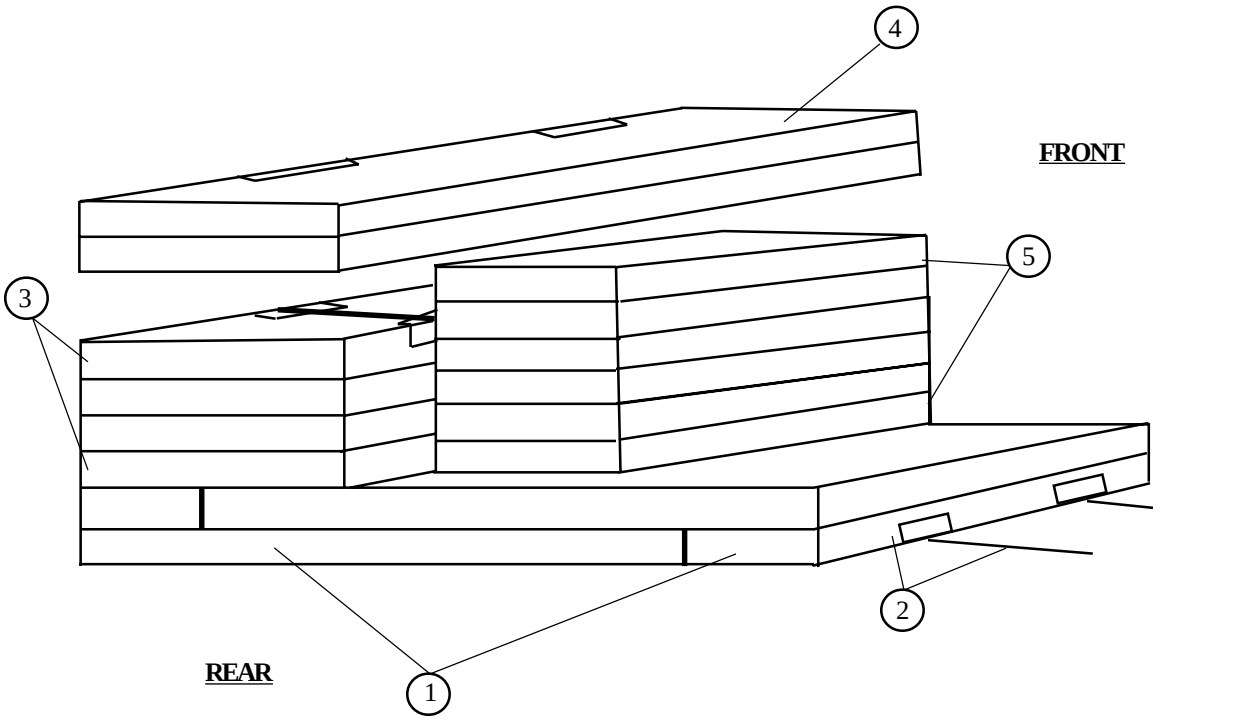
(13) Glue and nail two 2- by 12- by 12-inch pieces of lumber flush with the right front corner on top of the 2- by 12- by 38 1/2-inch piece of lumber in step 10.

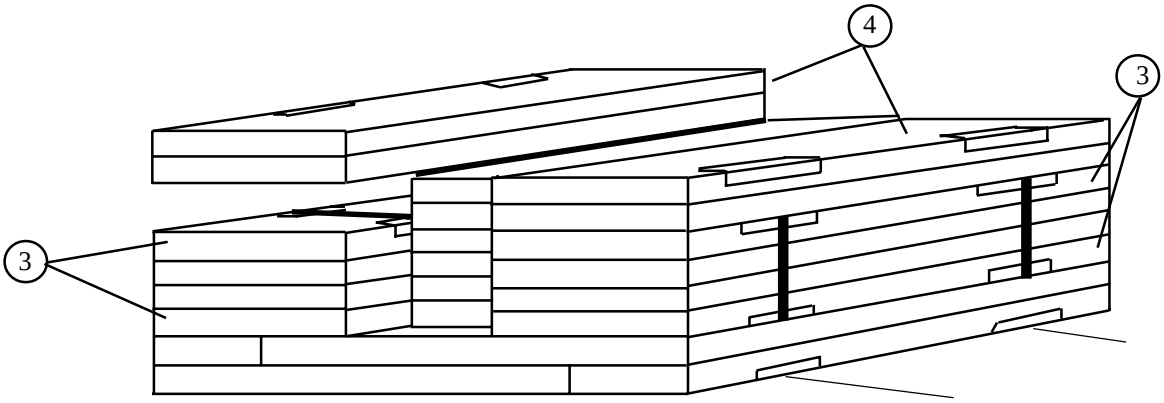
(14) Center, glue and nail one piece of 11 1/2- by 12-inch piece of 3/4-inch plywood on top of the two pieces of lumber in step 13.

(15) Glue and nail two 2- by 12- by 12-inch pieces of lumber flush with the left front corner on top of the 2- by 12- by 38 1/2-inch piece of lumber in step 10.

(16) Center, glue and nail one piece of 11 1/2- by 12-inch piece of 3/4-inch plywood on top of each of the two pieces of lumber in step 15. **Glue the completed lumber to the honeycomb base.**

Figure 3-6. Stack 4 prepared (Continued)





1. Position a 36- by 46-inch piece of honeycomb beside a 12- by 46-inch piece of honeycomb. Glue a 36- by 46-inch piece of honeycomb and a 12- by 46-inch piece of honeycomb on top of the first layer. Alternate them to form the base.

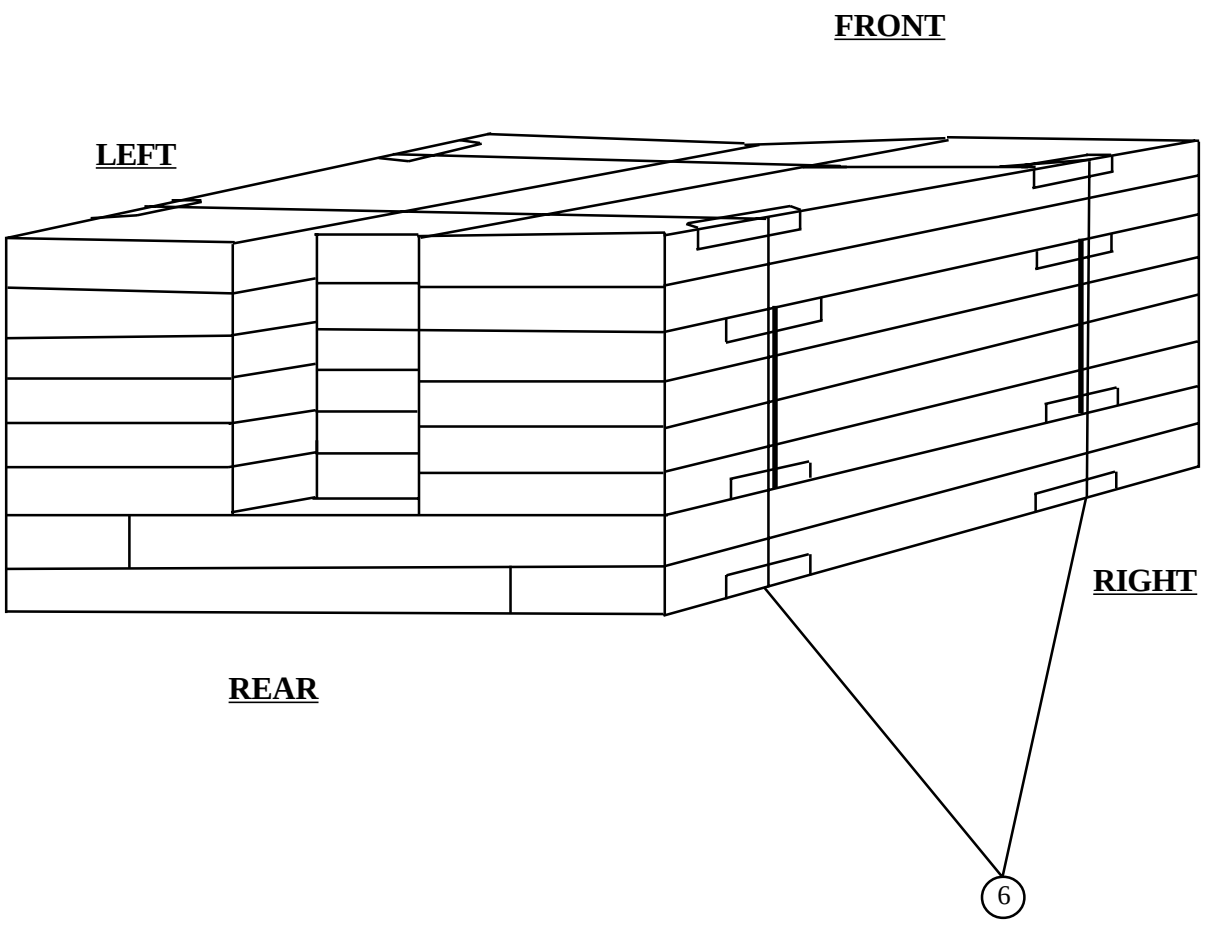
2. Place a length of cloth backed tape on the bottom outer edges of the base. Position two 13-foot lengths of type III nylon cord under the base. Align with the strips of tape.

3. Form two stacks by gluing four pieces of 18- by 46-inch honeycomb together. Place a sufficient length of cloth backed tape on all edges. Run a length of 1/2-inch tubular nylon over the strips of tape and around the 18- by by 46-inch stacks. Secure and tie with a square knot on the outside of the stack. Place the stack flush with the base. **(Do not glue to base.) (The 1/2-inch tubular nylon ties, PULL-OUT AIDS, are to assist in pulling the stacks out from under the vehicle during derigging.)**

4. Form two stacks by gluing two pieces of 18- by 46-inch honeycomb together. Place a length of cloth backed tape on each end. Position each stack on top of the existing stacks. **(Do not glue.)**

5. Form a stack by gluing six 12- by 36-inch pieces of honeycomb together. Position the stack between the two stacks in step 4, flush with the rear edge of the base. **(Do not glue to base.)**

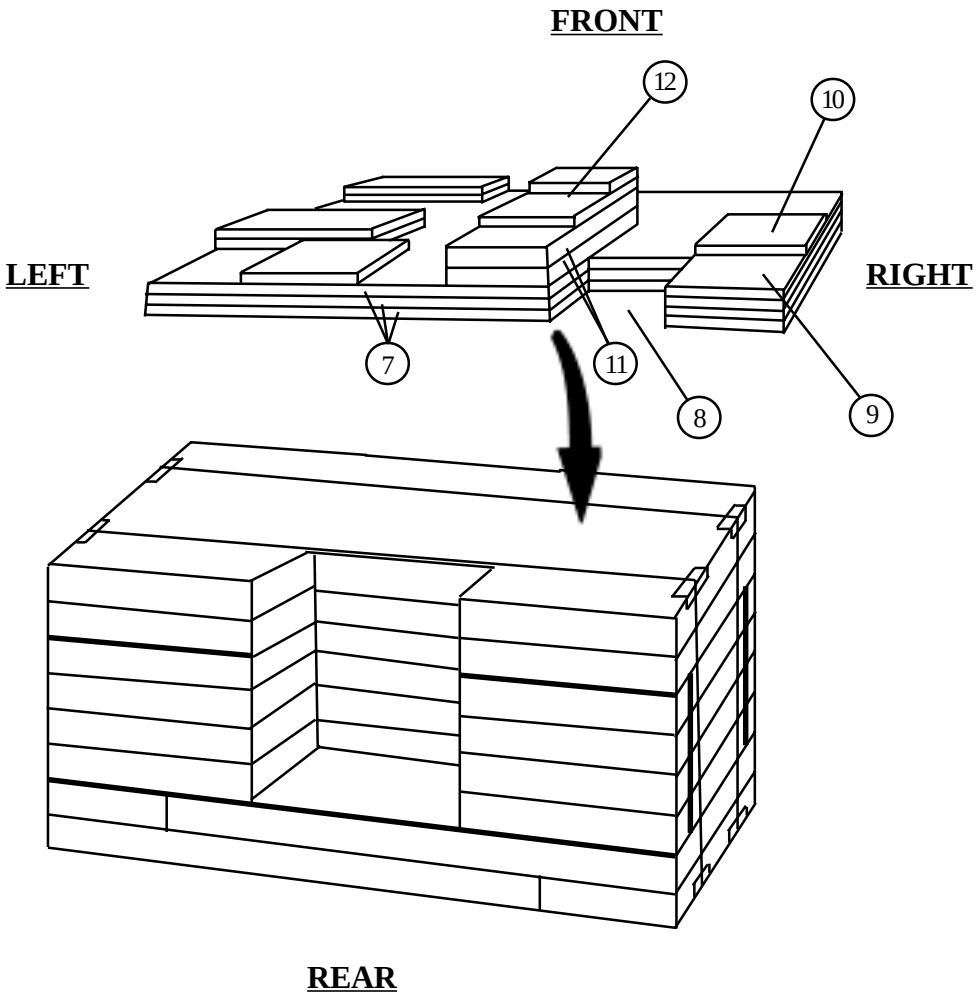
Figure 3-7. Stack 5 prepared



(6) Secure and tie the type III nylon cord around the completed honeycomb stack.

Figure 3-7. Stack 5 prepared (Continued)

Note: Place the plywood on the honeycomb stack after positioning stack on the platform.



7 Glue and nail together three 48- by 46-inch pieces of 3/4-inch plywood.

8 Cut an 8-inch long and 12-inch deep cutout in the rear 48-inch edge of the plywood 8 inches from the right side.

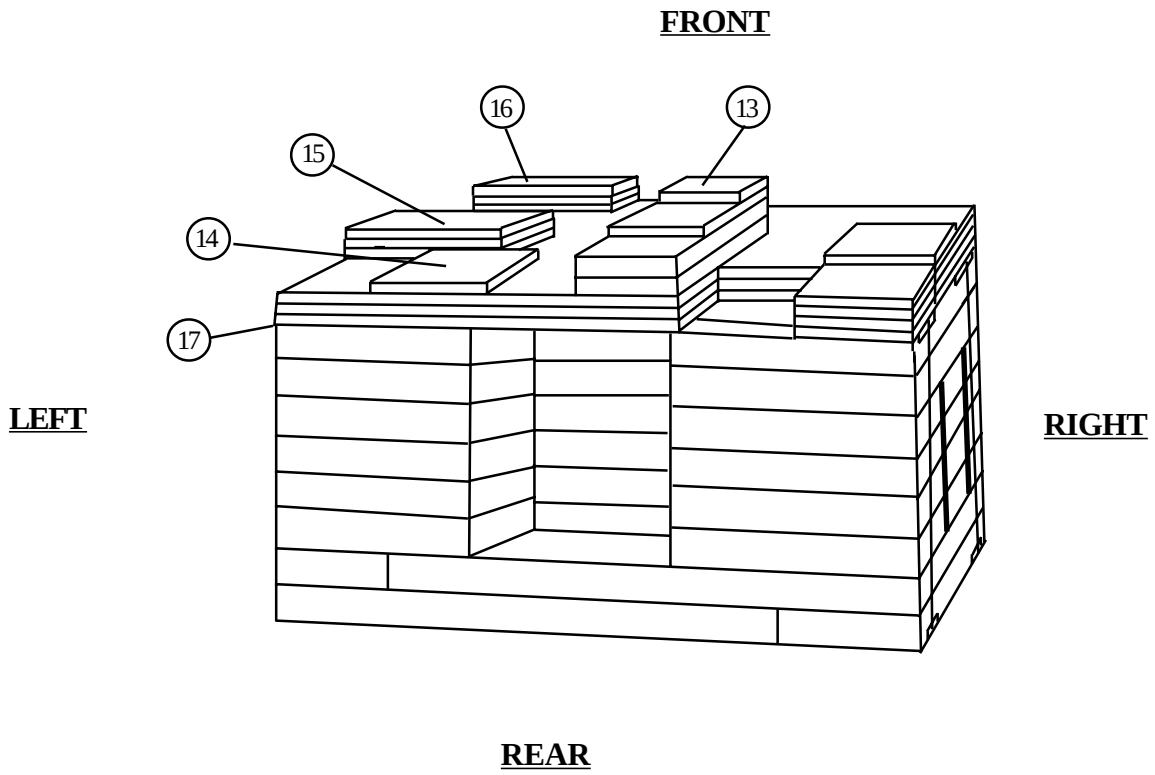
9 Glue and nail one 8- by 16- by 3/4-inch piece of plywood on top of the plywood flush with the rear right edge.

10 Glue and nail one 8- by 6- by 3/4-inch piece of plywood on top of the plywood in step 9 flush with the front right edge.

11 Glue and nail two 2- by 8- by 26 1/2-inch pieces of lumber flush with the rear edge of the plywood and even with the left side of the cutout.

12 Glue and nail one 7 1/2- by 26 1/2-inch piece of 3/4-inch plywood on top of the lumber in step 11 flush with the front edge of the lumber.

Figure 3-7. Stack 5 prepared (Continued)



(13) Glue and nail one 7 1/2- by 8-inch piece of 3/4-inch plywood on top of the plywood in step 12 flush with the front edge of the lumber.

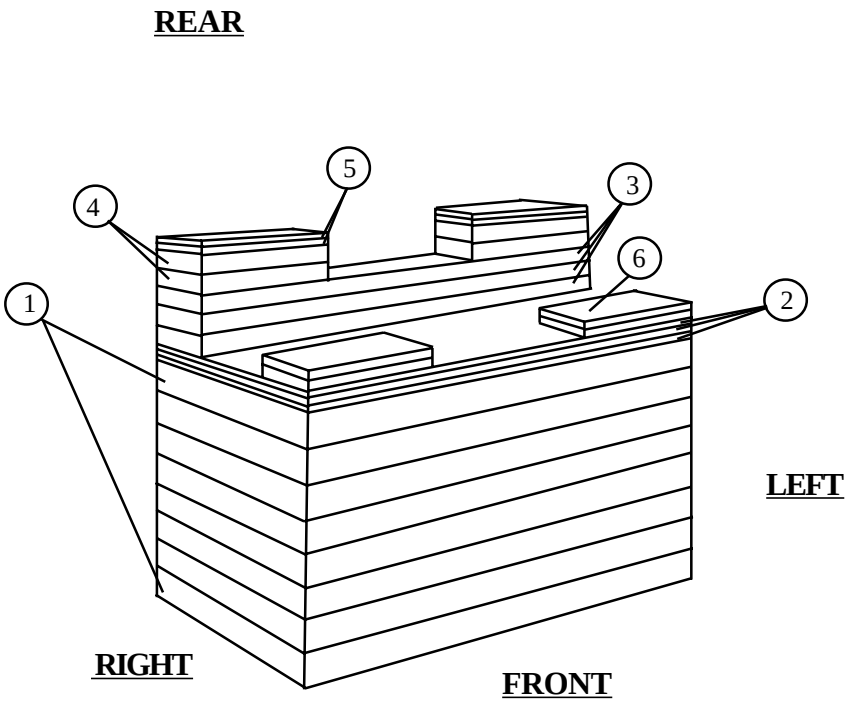
(14) Glue and nail one 10- by 10-inch piece of 3/4-inch plywood on top of the plywood flush with the rear edge and 8 inches from the left edge.

(15) Glue and nail three 14- by 12-inch pieces of 3/4-inch plywood on top of the plywood even with the left edge and flush against the front edge of the plywood in step 14.

(16) Glue and nail three 14- by 12-inch pieces of 3/4-inch plywood on top of the plywood flush with the left front corner.

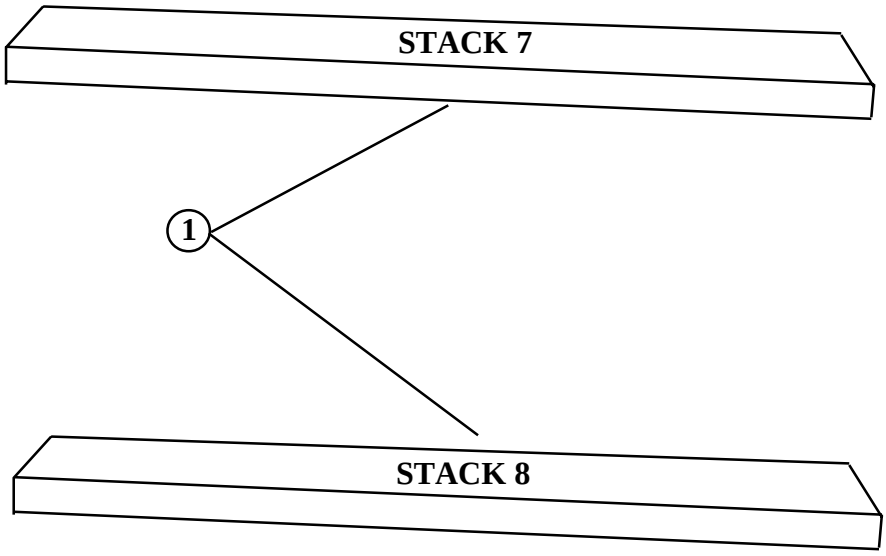
(17) Glue the completed lumber to the honeycomb base.

Figure 3-7. Stack 5 prepared (Continued)



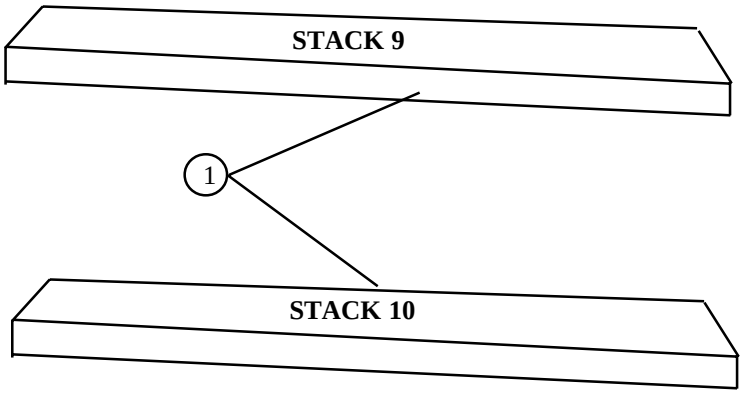
1. Glue eight 43- by 24-inch pieces of honeycomb together to form a base.
2. Glue and nail three 43- by 24-inch pieces of 3/4-inch plywood together.
3. Glue and nail three 2- by 8- by 43-inch pieces of lumber. Center, glue and nail each piece of lumber flush with the rear edge of the plywood.
4. Glue and nail two 2 piece stacks of 2- by 8- by 12-inch lumber. Glue and nail one stack flush with the right edge and one stack flush with left edge of the lumber in step 3.
5. Glue two 2 piece stacks of 7 1/2- by 12-inch pieces of 3/4-inch plywood. Glue and nail one stack on top of the right and left stacks of lumber in step 4.
6. Glue two 2 piece stacks of 14- by 7-inch pieces of 3/4-inch plywood. Glue and nail each stack flush with the right and left front corners.
7. Glue the completed lumber to the honeycomb base.

Figure 3-8. Stack 6 prepared



(1) Cut two 18- by 96-inch pieces of honeycomb.

Figure 3-9. Stacks 7 and 8 prepared



(1) Cut two 18- by 74-inch pieces of honeycomb.

Figure 3-10. Stacks 9 and 10 prepared

3-4. Positioning Honeycomb Stacks

Position the honeycomb stacks as shown in *Figure 3-11*.

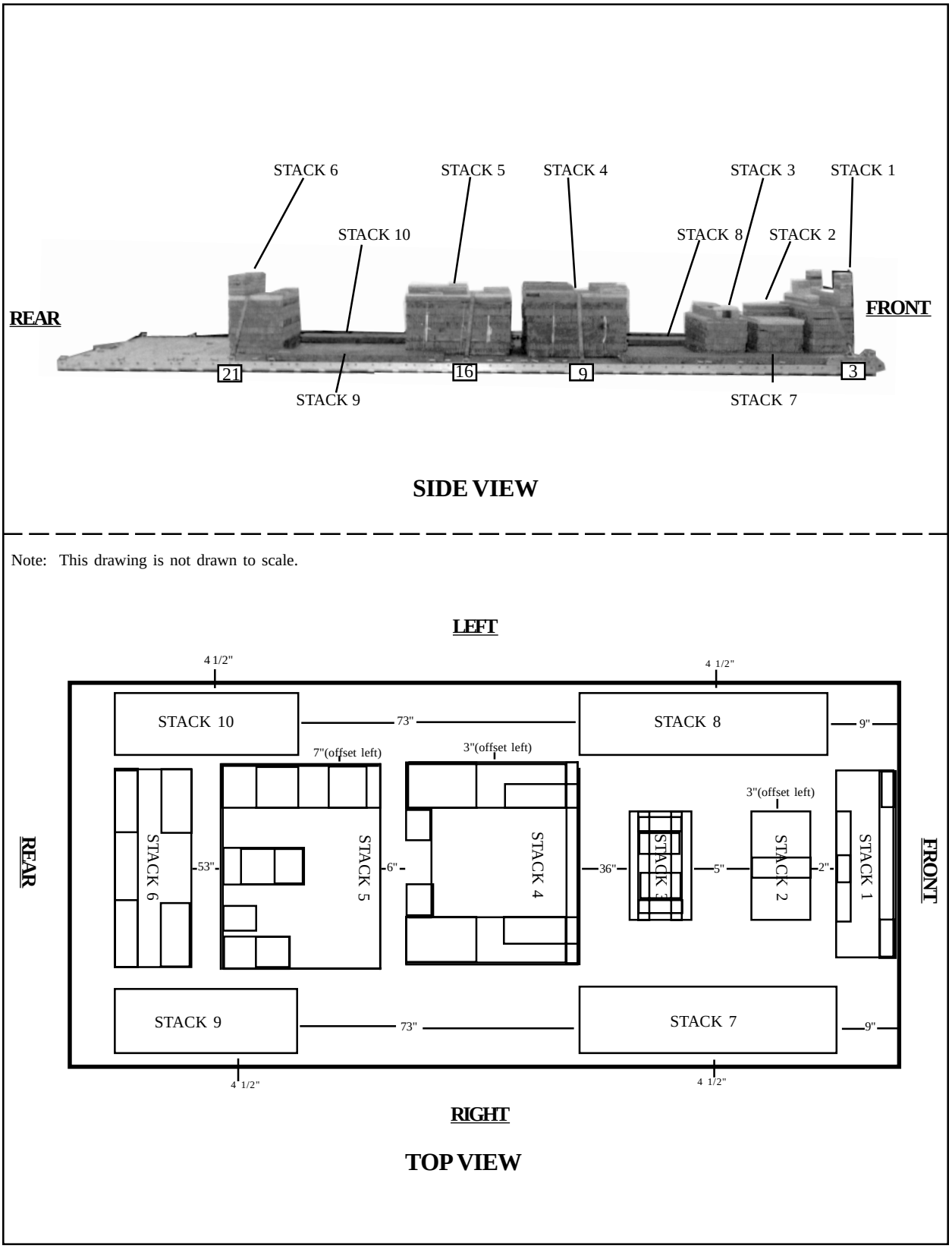


Figure 3-11. Honeycomb stacks positioned on platform

Stack Number	Instructions
1	Position stack 1, centered and flush with the front of the platform. Secure the stack by passing a 15-foot tie-down lashing through clevis 3A and through its own D-ring. Route the lashing over the stack and secure it with a D-ring and loadbinder to clevis 3.
2	Position stack 2, offset 3 inches to the left of center and 2 inches from stack 1.
3	Position stack 3, centered and 5 inches from stack 2.
4	Position stack 4, offset 3 inches to the left of center and 36 inches from stack 3. Secure the stack by passing a 15-foot tie-down lashing through clevis 9A and through its own D-ring. Route the lashing over the stack and secure it with a D-ring and a loadbinder to clevis 9.
5	Position stack 5, offset 7 inches to the left of center and 6 inches from stack 4. Secure the stack by passing a lashing through clevis 16A and it's own D-ring. Route the lashing over the stack and secure it with a D-ring and a loadbinder to clevis 16.
6	Position stack 6, centered and 53 inches from stack 5. Secure the stack by passing a 15-foot tiedown lashing through clevis 21A and then through its own D-ring. Route the lashing over the stack and secure the end with a D-ring and loadbinder to clevis 21.
7	Position stack 7, 9 inches from the front edge of the platform and 4 1/2 inches from the right platform side rail.
8	Position stack 8, 9 inches from the front edge of the platform and 4 1/2 inches from the left platform side rail.
9	Position stack 9, 73 inches from stack 7 and 4 1/2 inches from the right platform side rail.
10	Position stack 10, 73 inches from stack 8 and 4 1/2 inches from the left platform side rail.

Figure 3-11. Honeycomb stacks positioned on platform (Continued)

3-5. Preparing Truck

Prepare the M1093 truck as shown in *Figure 3-12* and as described below.

a. Make sure the fuel tank is not more than 3/4 full.

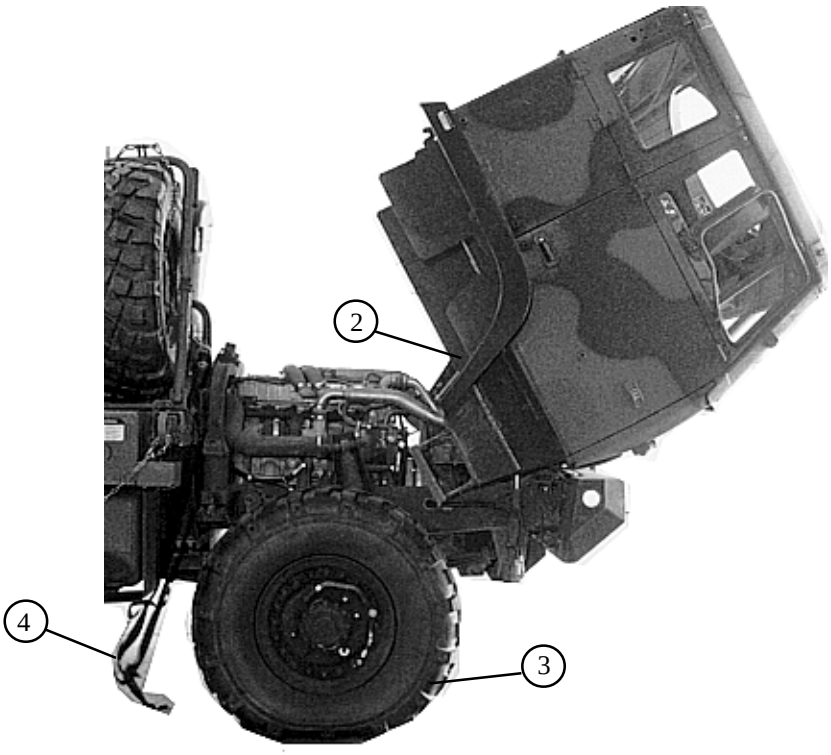
b. Make sure the batteries and compartment comply with AFJMAN 24-204/TM 38-250.

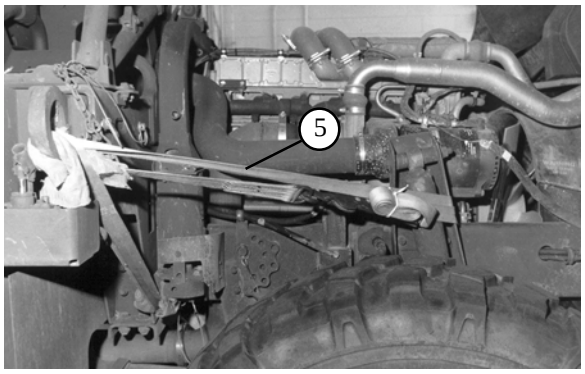
The following is a list of materials used for truck preparation.

PIECES	WIDTH (inches)	LENGTH (inches)	MATERIAL
1	36	36	Honeycomb
1	36	80	Honeycomb
2	18	60	Honeycomb
10	2- by 6	13	Lumber
2	4- by 4	6	Lumber
2	4- by 4	15	Lumber
4	2- by 4	6	Lumber
1	10	10	3/4-inch Plywood
3	2- by 6	6	Lumber
1	36	96	Honeycomb
4	1/2	10	Bolts (washers and nuts)

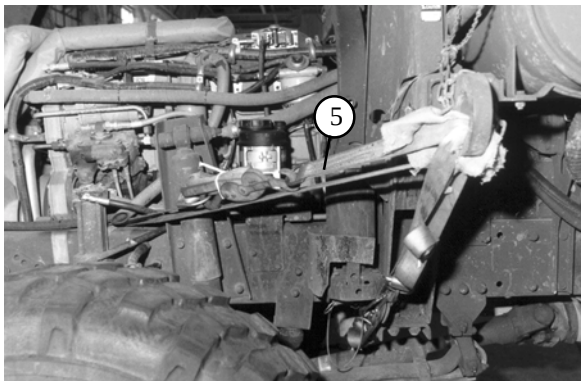
NOTES: 1. The truck should arrive at the rigging site with the gun turret removed from roof and replaced with flat insert.

2. The cargo/troop carrier cover, bows, cargo/troop carrier cover poles, bed stakes, seat bars, seats and side rails located in the rear of the truck should be removed and packed as basic load.





RIGHT



LEFT

(1) Remove any radio antennae mounts on the outside of the cab. (Not shown)

(2) Place the cab compartment in the raised position.

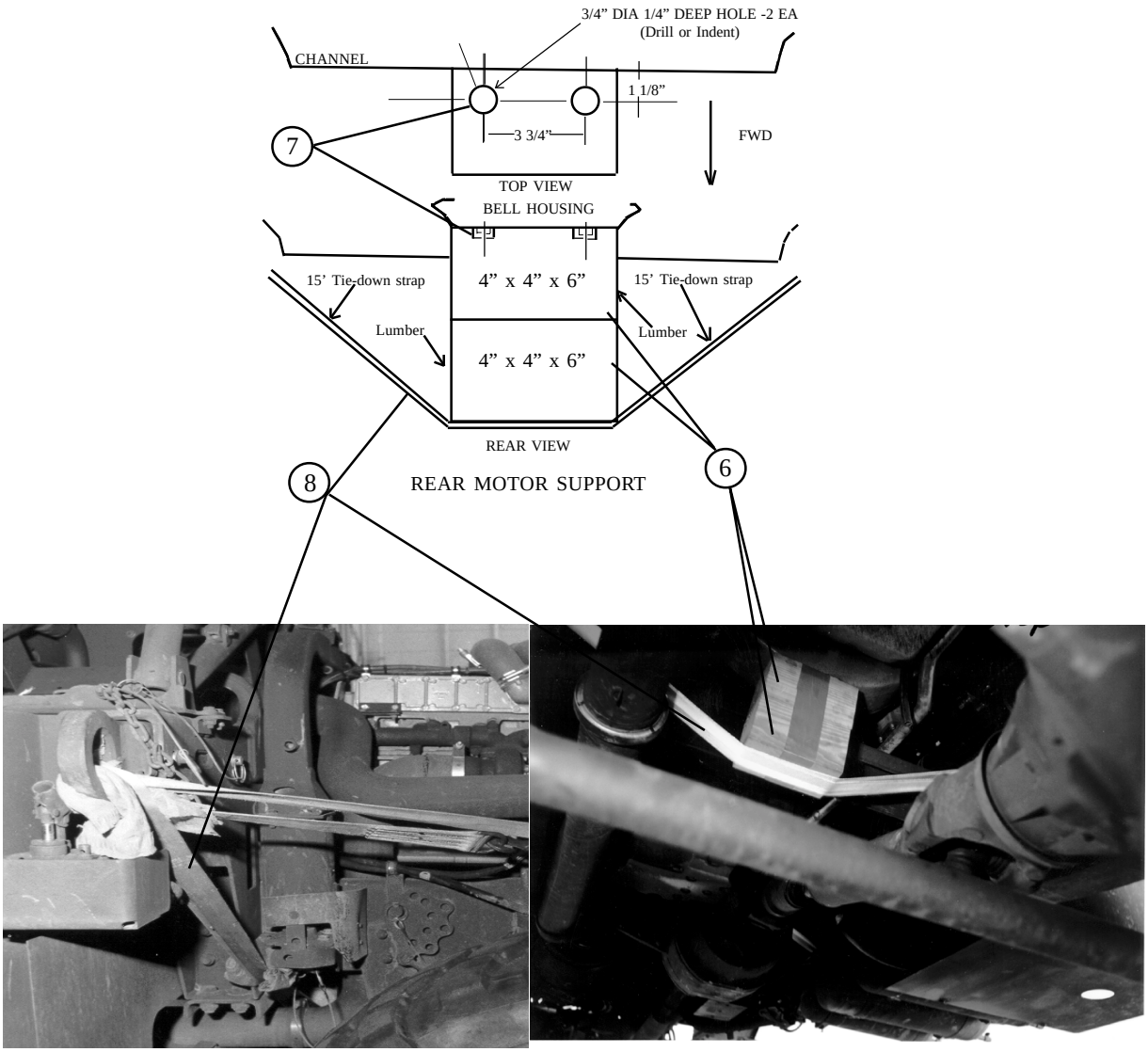
(3) Deflate all tires to sand mode (22 PSI), allowing the vehicle to sit on the honeycomb stacks correctly.
Note: Verify each individual tire pressure for accuracy.

(4) Remove the tire strap.

(5) Route a 15-foot tiedown lashing through the right side lifting point, in front of the shock, over the frame, behind/under the motor mount, back over the frame, back in front of the shock, and back to the lifting point. Secure the lashing with a D-ring and loadbinder. (Ensure lashing runs underneath all hoses and wiring). Repeat for the left side.

Figure 3-12. Truck prepared

Note: This drawing is not drawn to scale.



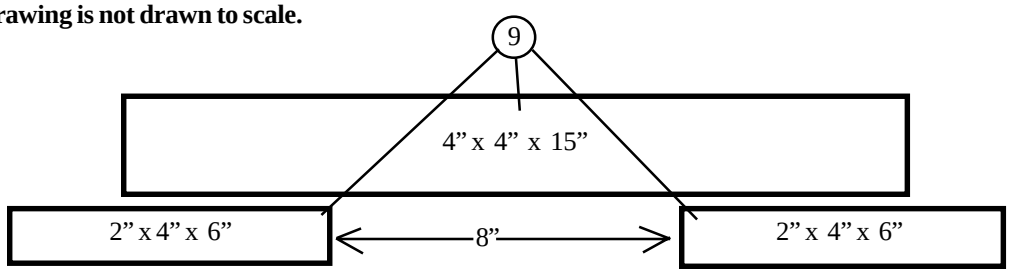
(6) Cut two 4- by 4- by 6-inch pieces of lumber.

(7) Countersink two holes 3/4-inch in diameter 1/4-inch deep and 1 1/8 inch from the edge on the 6 inch side, with a 3 3/4 inch center to center hole measurement in one piece of 4- by 4- by 6-inch lumber. Place the other 4 - by 4- by 6-inch piece of lumber under the first piece of lumber and tape them together leaving the holes exposed.

(8) Place the countersunk holes of the 4- by 4- by 6-inch piece of lumber over the bolts in the bell housing. Route a 30-foot lashing through the right side lifting point under the 4- by 4- by 6-inch piece of lumber and through the left side lifting point, and back under the 4- by 4- by 6-inch piece of lumber. Secure with a D-ring and loadbinder.

Figure 3-12 Truck prepared (Continued)

Note: This drawing is not drawn to scale.



(9) Glue and nail together one 4- by 4- by 15-inch piece of lumber and two 2- by 4- by 6-inch pieces of lumber for each axle.

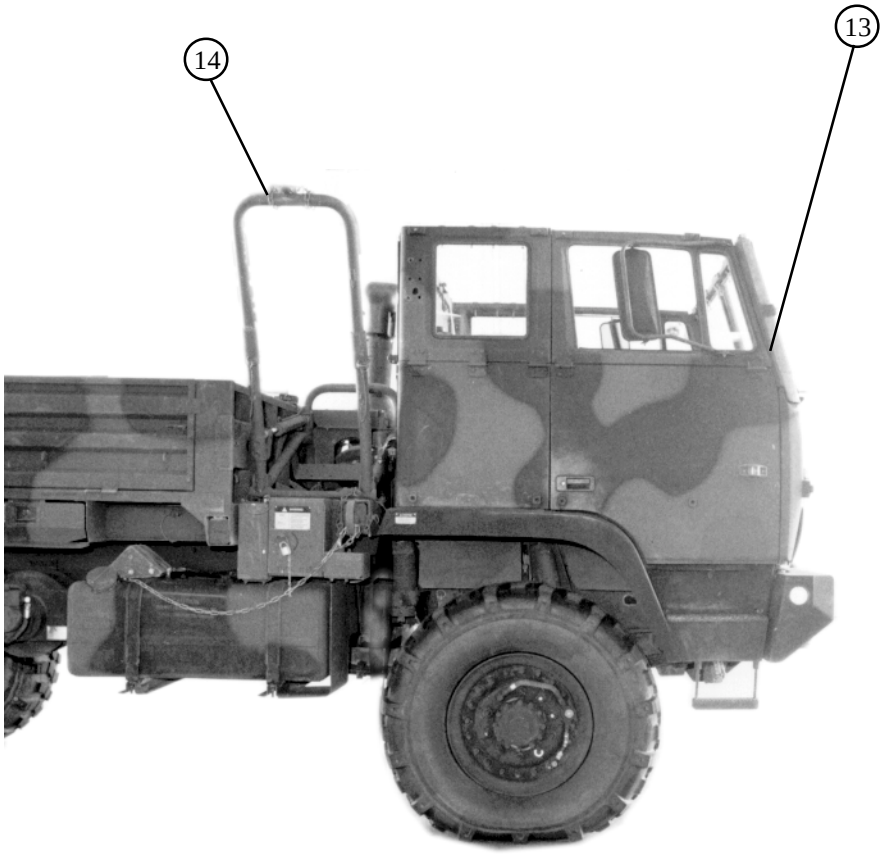
(10) Position them on top of the right and left axles and secure with type III nylon cord.

(11) Position a 10- by 10- by 3/4-inch piece of plywood and three 2- by 6- by 6-inch pieces of lumber against the oil pan and front of the engine.

Figure 3-12. Truck prepared (Continued)

(12) Route a 15-foot lashing in rear of motor mounts around the left and right main frames (under all hoses). Secure the lumber and plywood with D-ring and loadbinder.

Figure 3-12. Truck prepared (Continued)



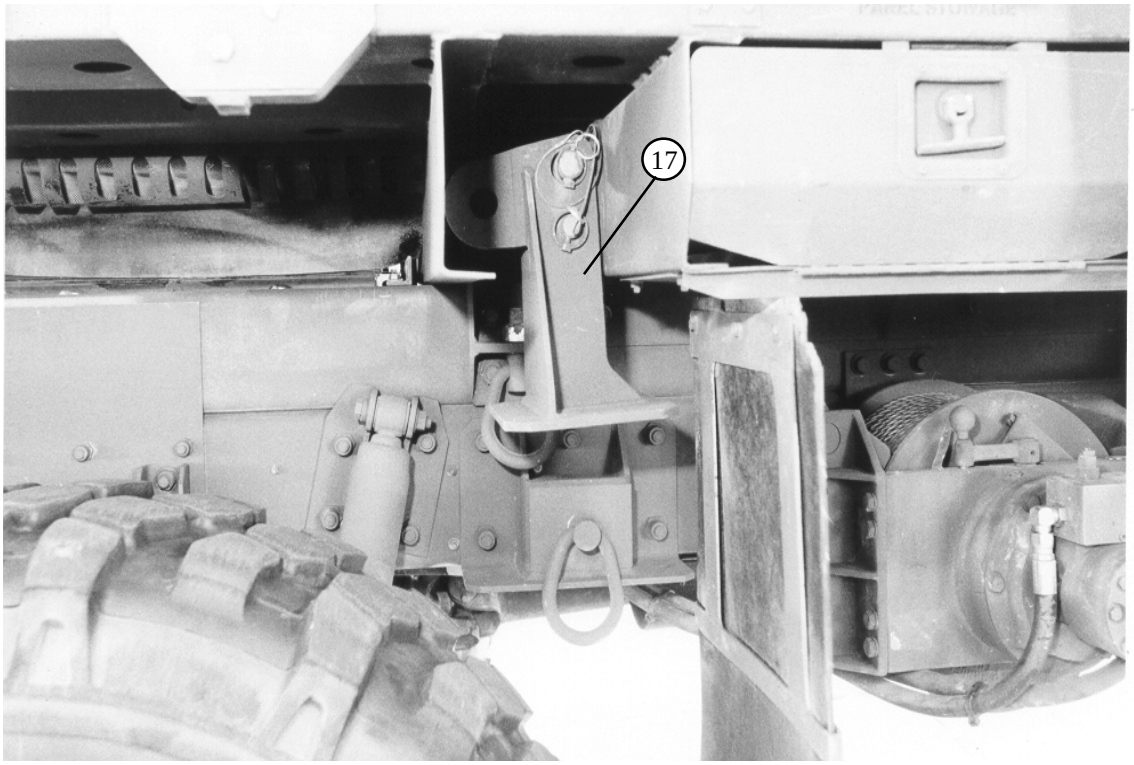
(13) Place the cab in the lowered position.

(14) Remove the spare tire from the rack and leave the spare tire carrier down.

(15) Remove the davit. (It is attached to the back of cab.) (Not shown)

(16) Remove the windshield wipers and stow the bolts and blades in the cab. (Not shown)

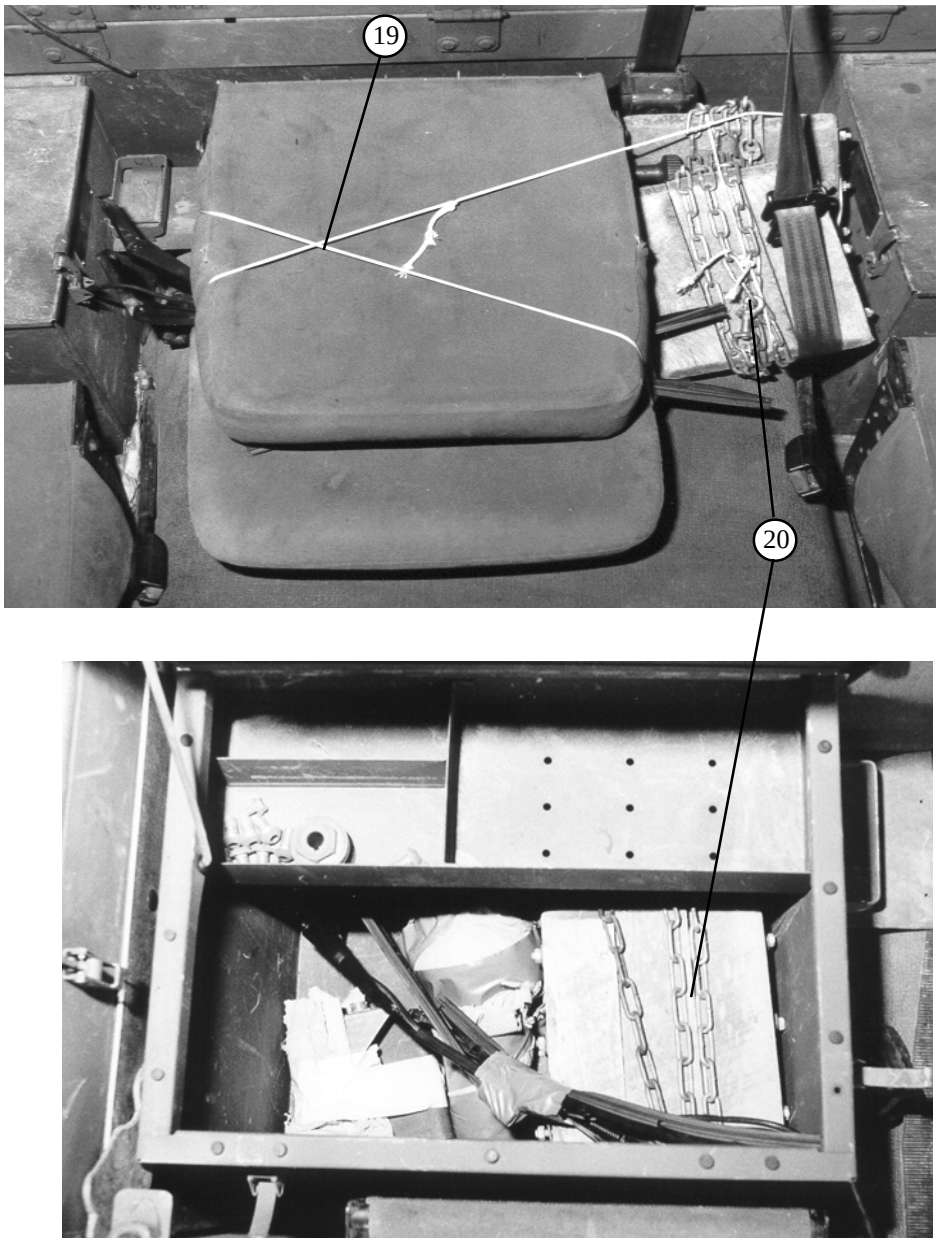
Figure 3-12. Truck prepared (Continued)



(17) Remove the front support brackets from under the bed of the truck.

(18) Install them on the front of the vehicle and wrap the outside edges with cellulose wadding and tape.

Figure 3-12. Truck prepared (Continued)

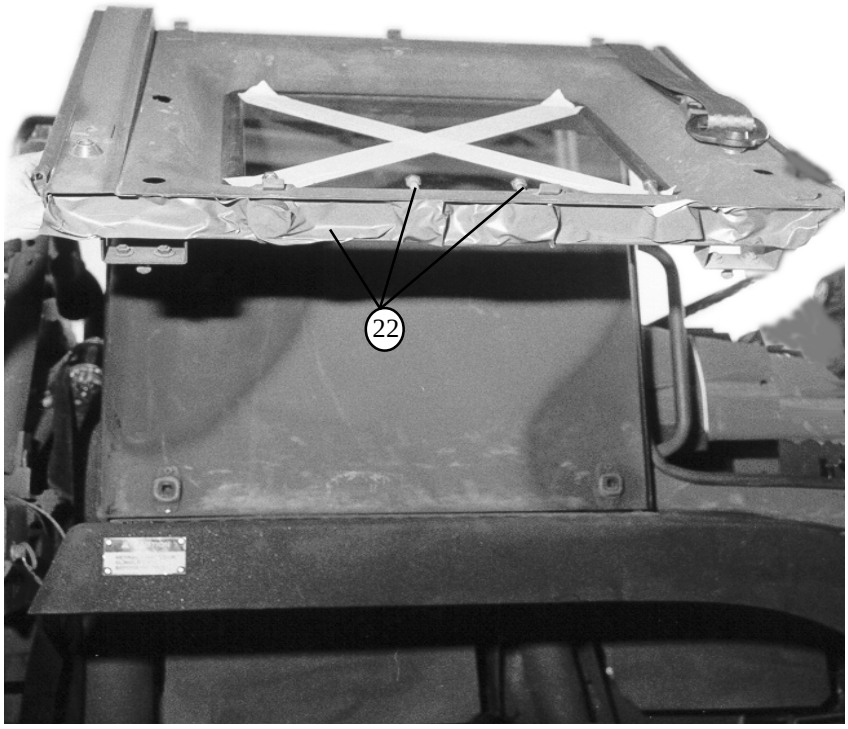


(19) Secure the chock blocks in cab or in storage box.

(20) Lower the seats and secure with type III nylon cord.

(21) Secure the fire extinguisher with type III nylon cord. (Not shown)

Figure 3-12. Truck prepared (Continued)

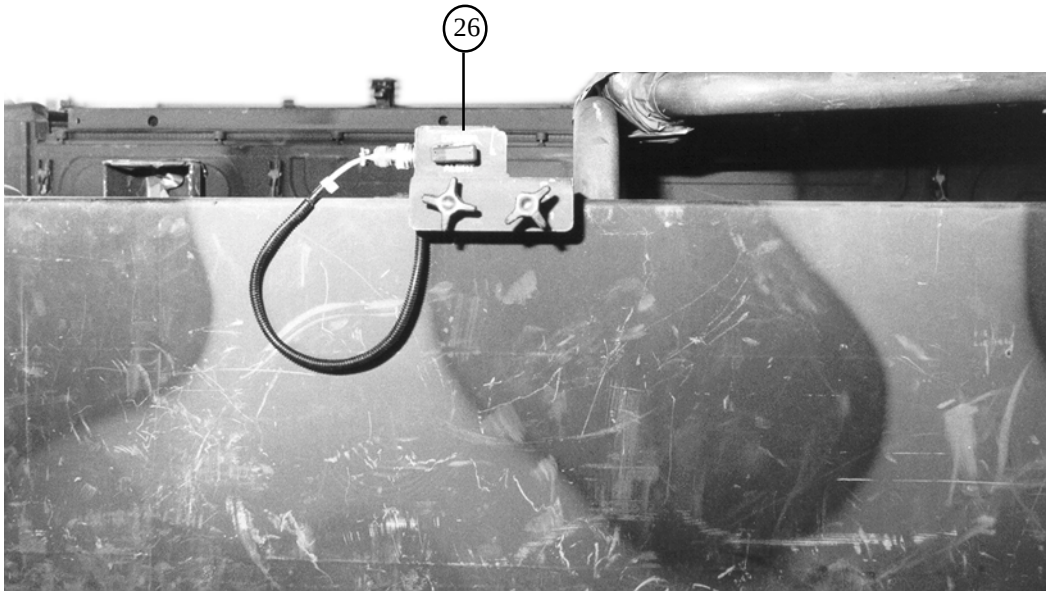


(22) Remove the roof and secure the roof bolts with tape.

(23) Fold down the windows, windshield and rear of the cab.

(24) Roll the windows down.

Figure 3-12. Truck prepared (Continued)

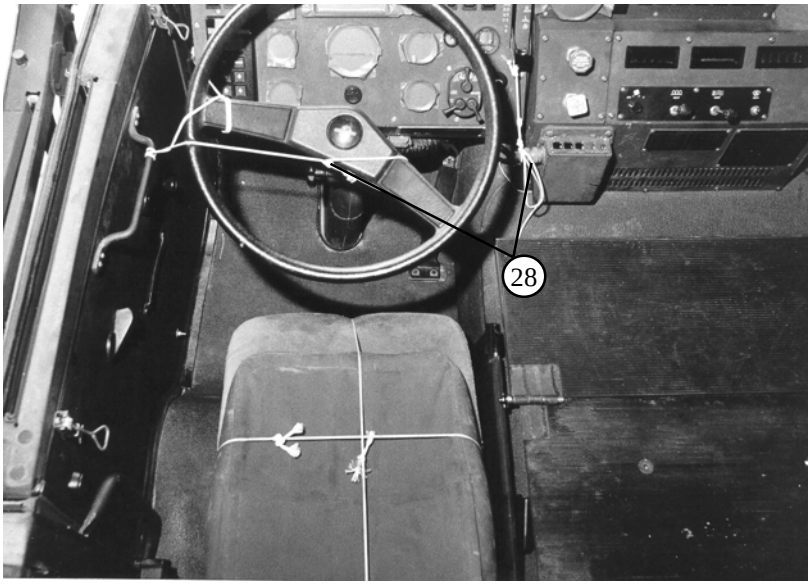


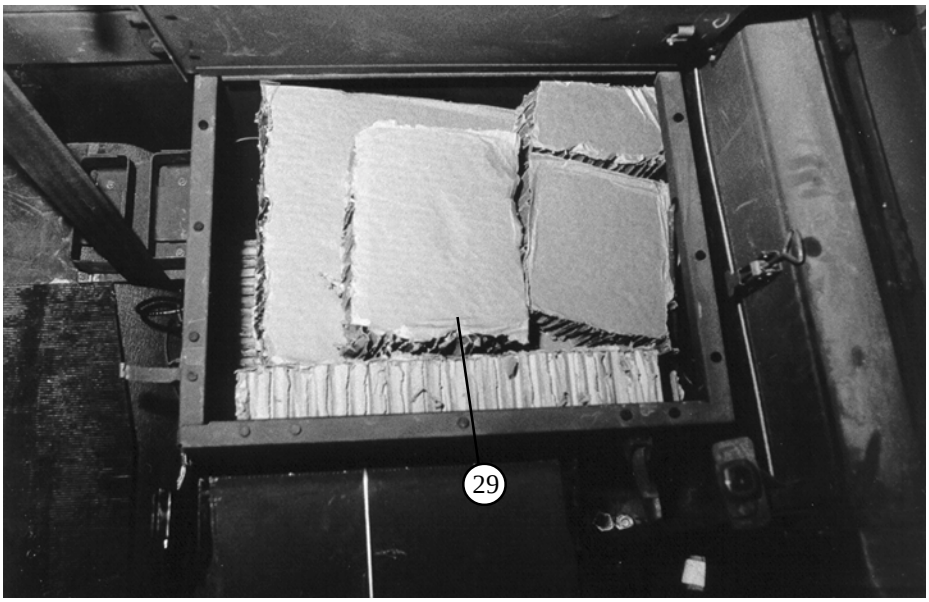
(25) Remove the air intake stack. Wrap it with cellulose wadding and stow in the cab.

(26) Remove the driver alert switch and stow in the cab. Tape the electrical connection.

(27) Remove the sunvisors and stow in the cab. (Not shown)

Figure 3-12. Truck prepared (Continued)

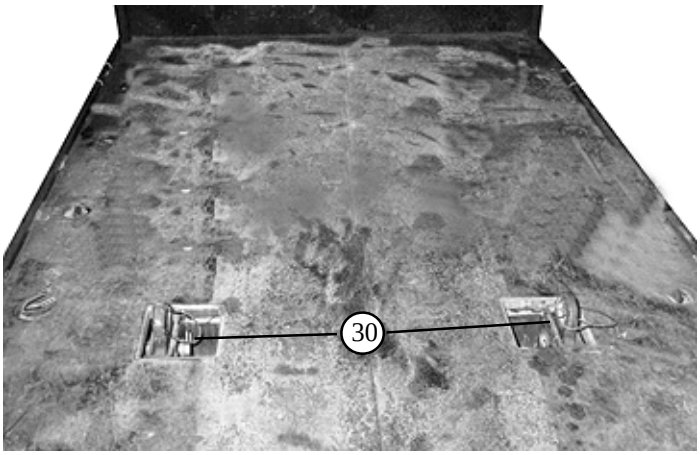


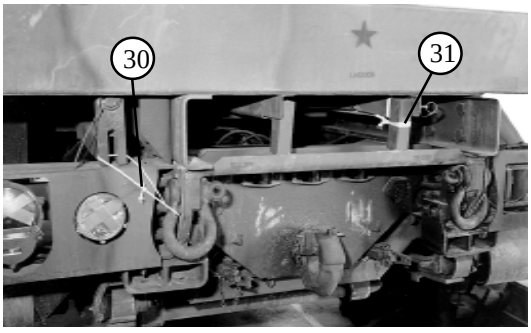


(28) Secure the steering wheel and hand throttle with type III nylon cord.

(29) Fill the driver and passenger storage boxes with honeycomb.

Figure 3-12. Truck prepared (Continued)



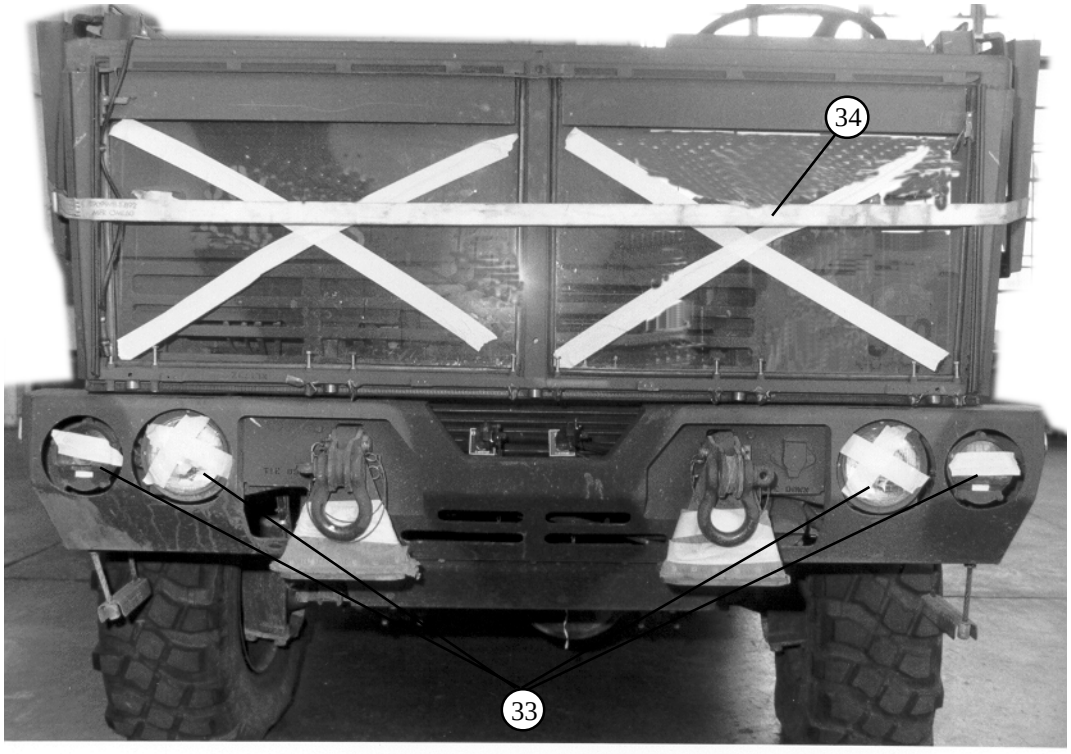


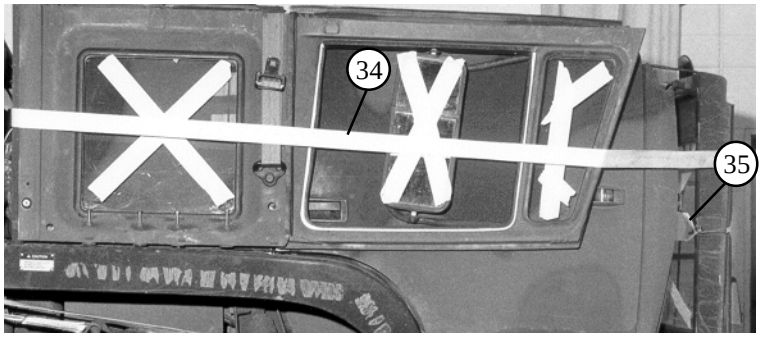
(30) Safety the left and right rear lifting pins (located on the truck bed near the rear with cover over them) with type III nylon cord. Route the type III nylon cord through the safety pin pull ring and around the safety pin. Stow the covers in the cab.

(31) Secure the ladder in place with a length of 1/2 -inch tubular nylon webbing.

(32) Secure the tow bar on the left side of the truck with a piece of type III nylon cord to the top left rear tie-down point.

Figure 3-12. Truck prepared (Continued)



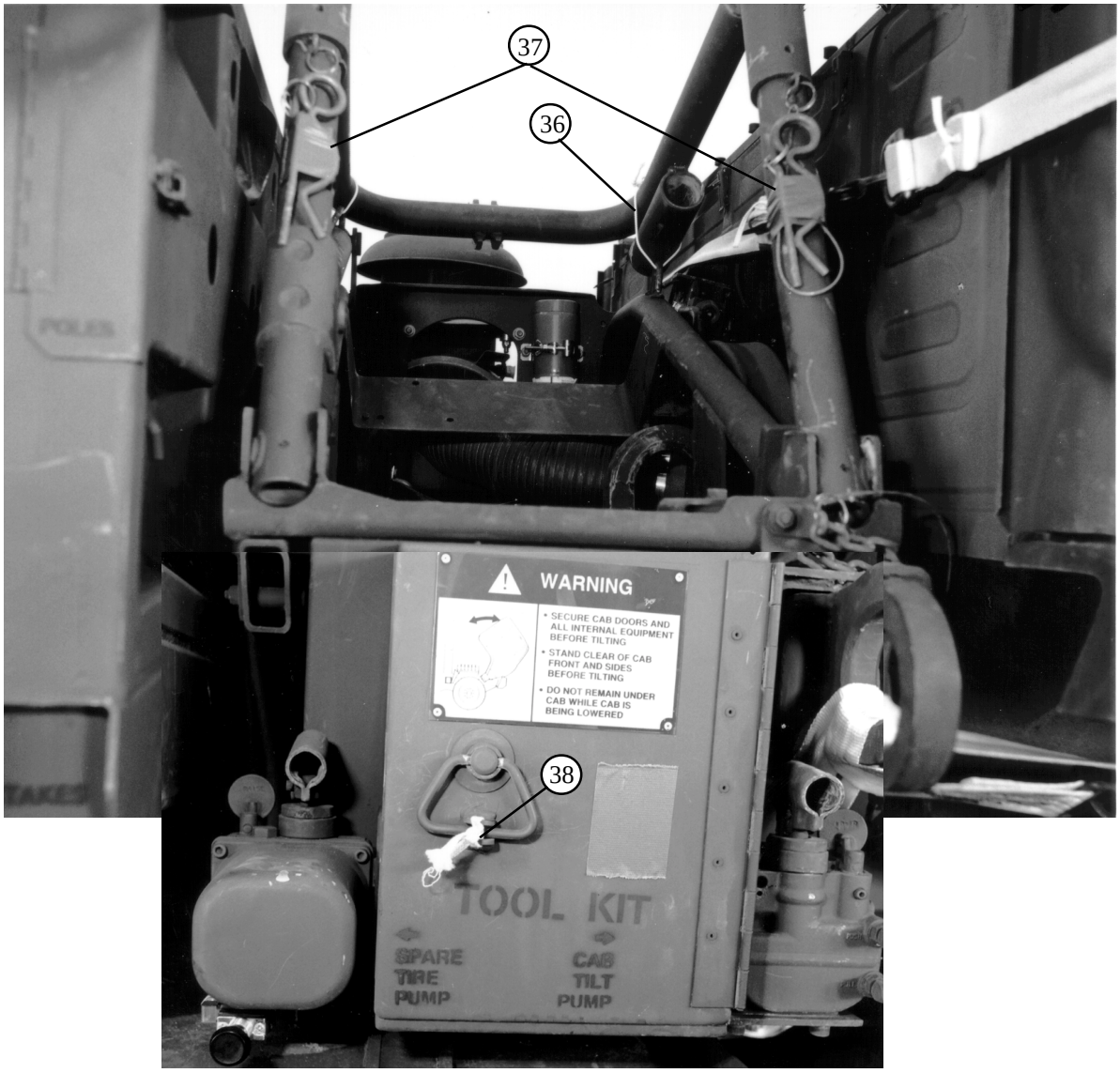


(33) Tape all lights, reflectors, and windows and pad mirrors with cellulose wadding and tape.

(34) Route a 30-foot lashing around the cab and secure with a loadbinder and D-rings in the rear of the cab. (Ensure D-rings do not come in contact with the glass).

(35) Secure the windshield to the left and right windshield stops with 1/2 -inch tubular nylon webbing.

Figure 3-12. Truck prepared (Continued)

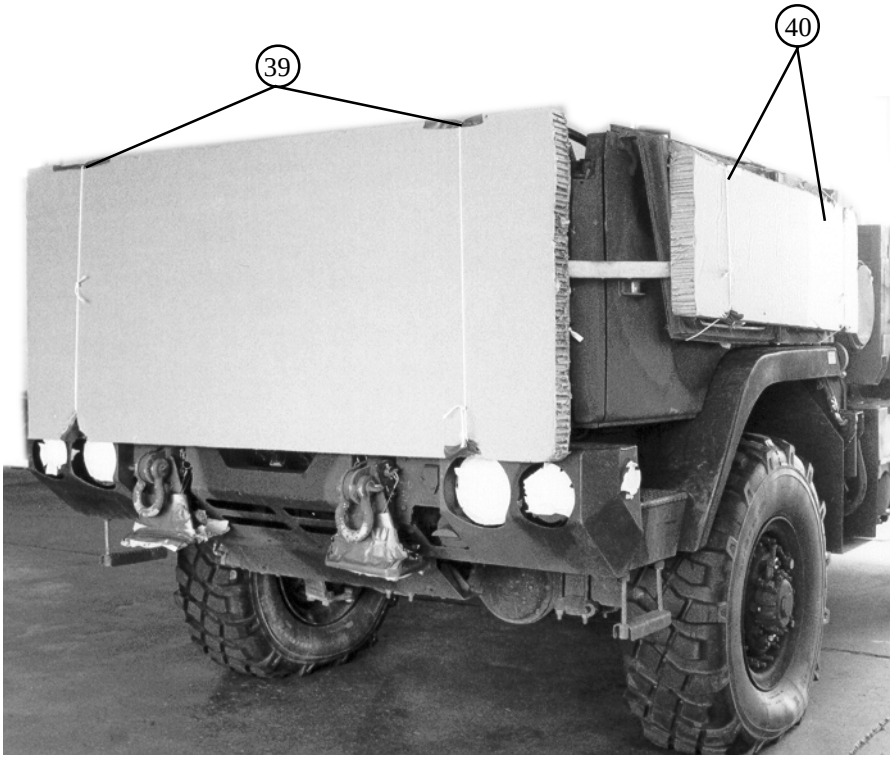


(36) Retract the spare tire carrier and secure with 1/2-inch tubular nylon webbing.

(37) Tape the chains and pins in place on the spare tire carrier.

(38) Secure the tool kit access panel with a length of type III nylon cord.

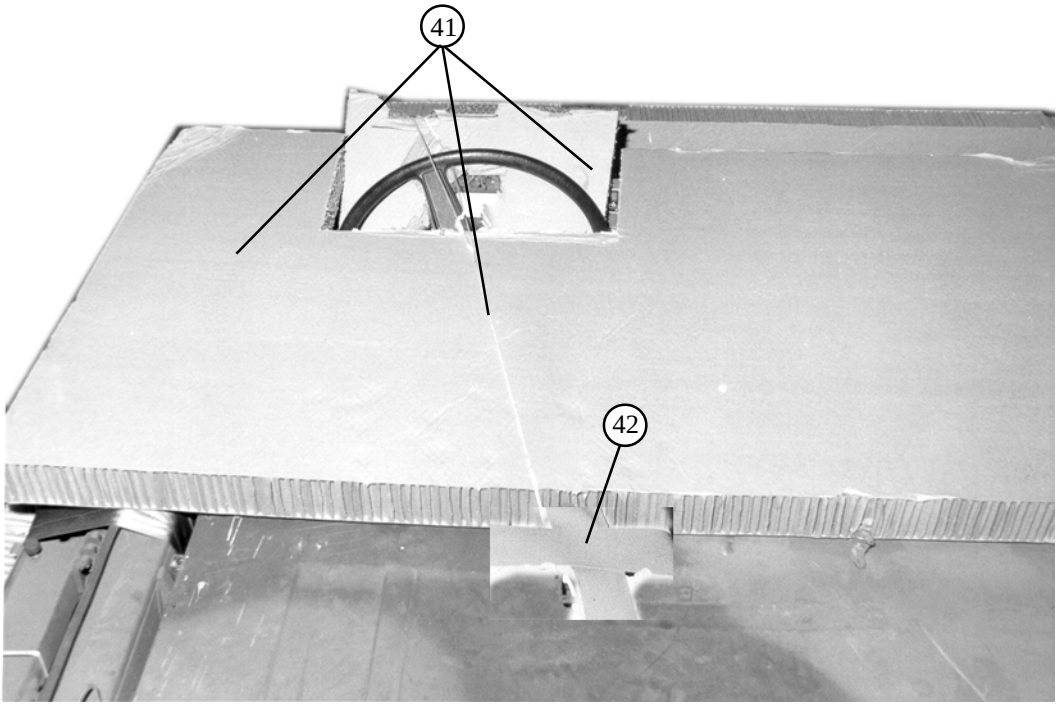
Figure 3-12. Truck prepared (Continued)



(39) Place a 36- by 80-inch piece of honeycomb on the windshield. Secure it with two lengths of type III nylon cord.

(40) Place one 18- by 60-inch piece of honeycomb on the left side window and one piece on the right side window. Secure each with two lengths of type III nylon cord.

Figure 3-12. Truck prepared (Continued)

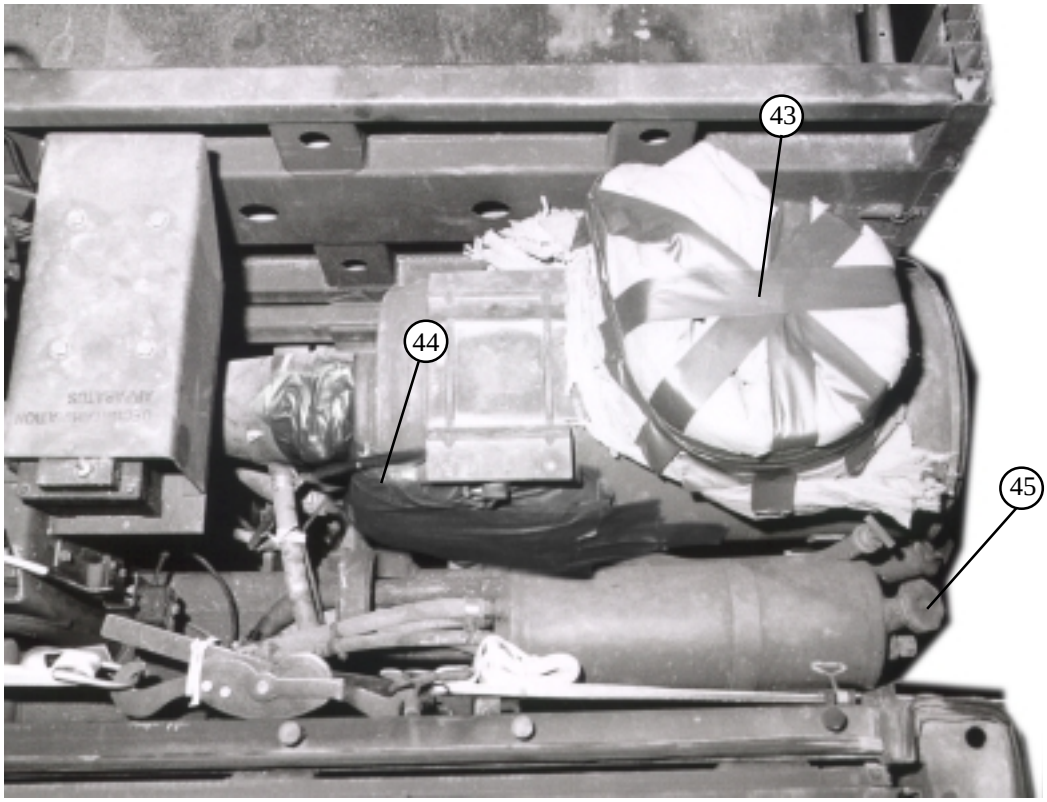


(41) Place a 36- by 96-inch piece of honeycomb over the driver's compartment. Cut out a section (approximately 12- by 21-inches) for the steering wheel and place it over the instrumentation panel in the cab. Secure both pieces with type III nylon cord.

(42) Pad the davit holders with cellulose wadding and secure with cloth-backed tape.

Figure 3-12. Truck prepared (Continued)

Note: Hoses that will interfere with the attaching of the suspension slings should be tied back.

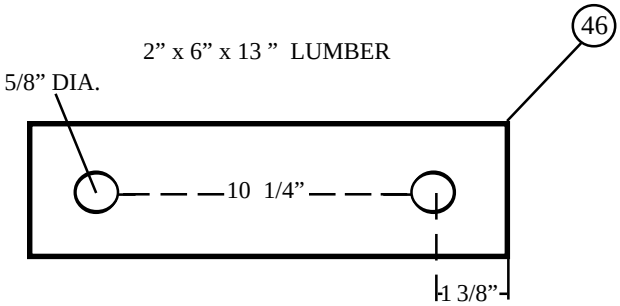


(43) Wrap the air intake fitting with cellulose wadding and secure with cloth-backed tape. Secure the end hose out of the way with type III nylon cord.

(44) Pad the lower air intake fitting with felt and secure with cloth-backed tape.

(45) Ensure the radiator pressure cap is secure.

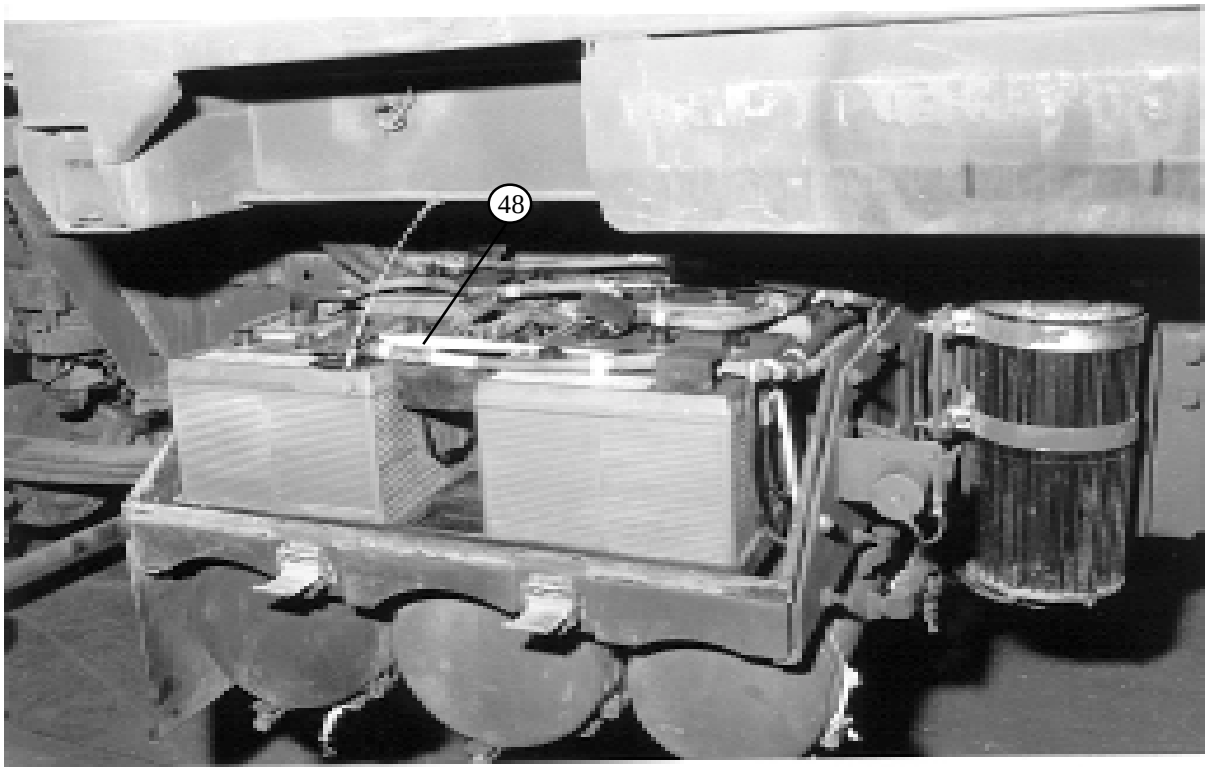
Figure 3-12. Truck prepared (Continued)

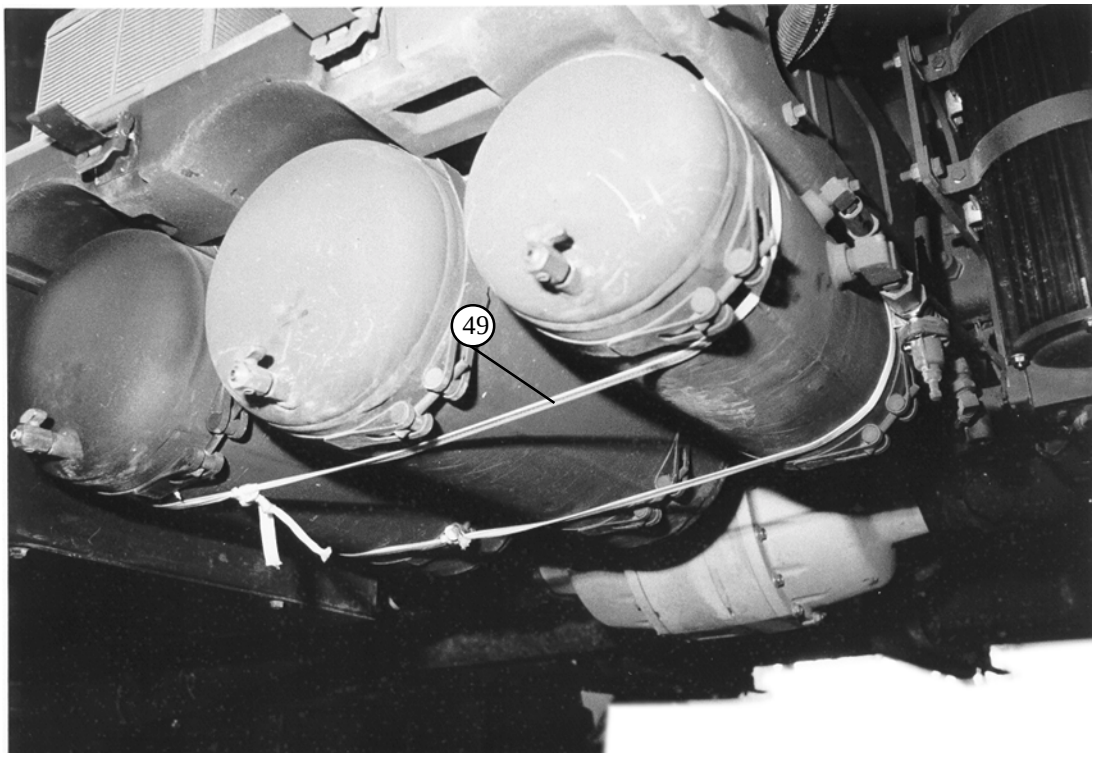


(46) Cut ten 2- by 6- by 13-inch pieces of lumber. Drill two 5/8-inch diameter holes 1 3/8-inches from the edge, with a 10 1/4-inch center to center hole measurement in each piece of lumber.

(47) Bolt five 2- by 6- by 13-inch pieces of lumber to the left and right side frame pads using two 1/2- by 10-inch bolts on each side.

Figure 3-12. Truck prepared (Continued)

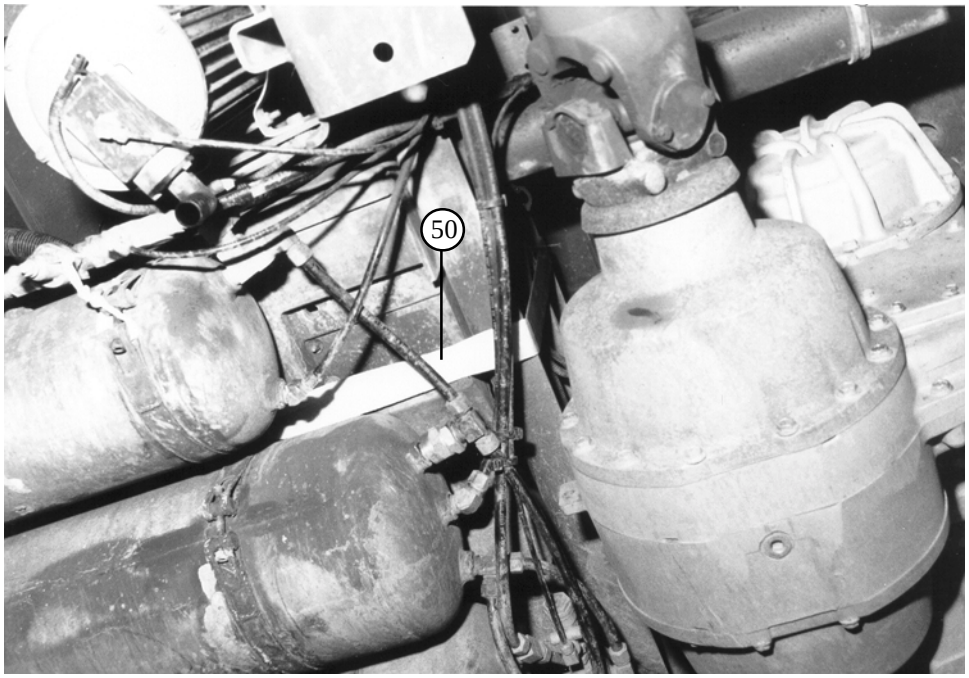


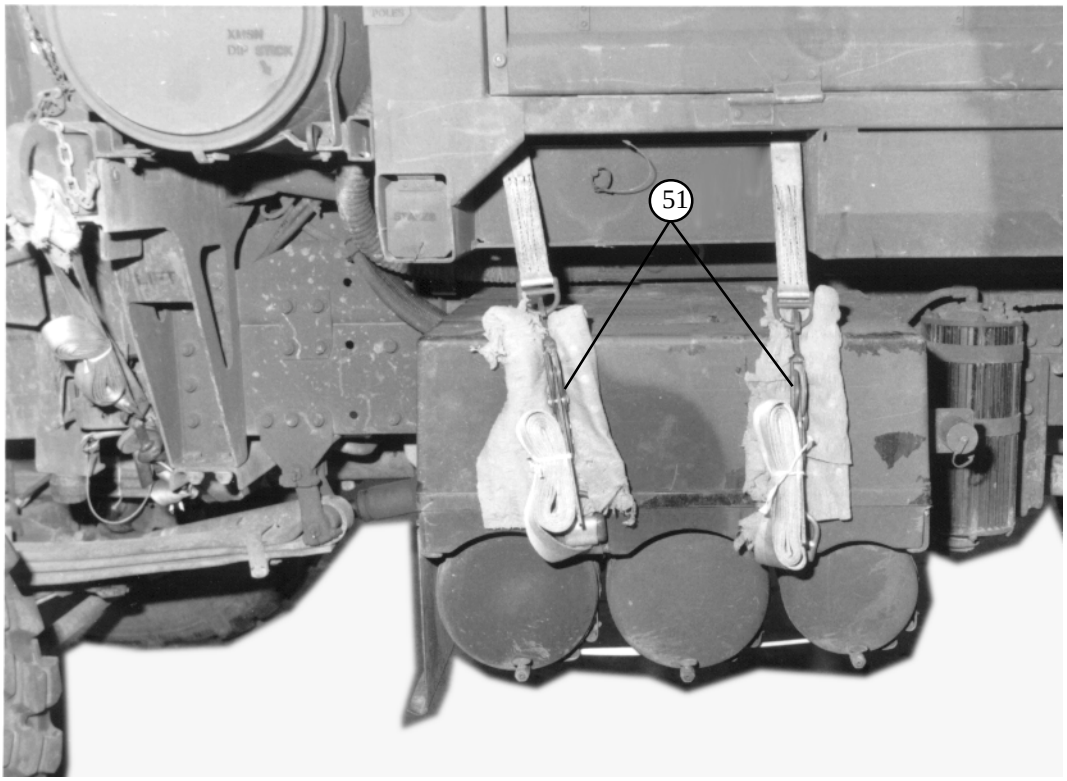


(48) Remove the battery box cover and secure the batteries in place with two lengths of 1/2-inch tubular nylon webbing.

(49) Run the nylon webbing over the batteries down through the battery box and under the air tanks.

Figure 3-12. Truck prepared (Continued)

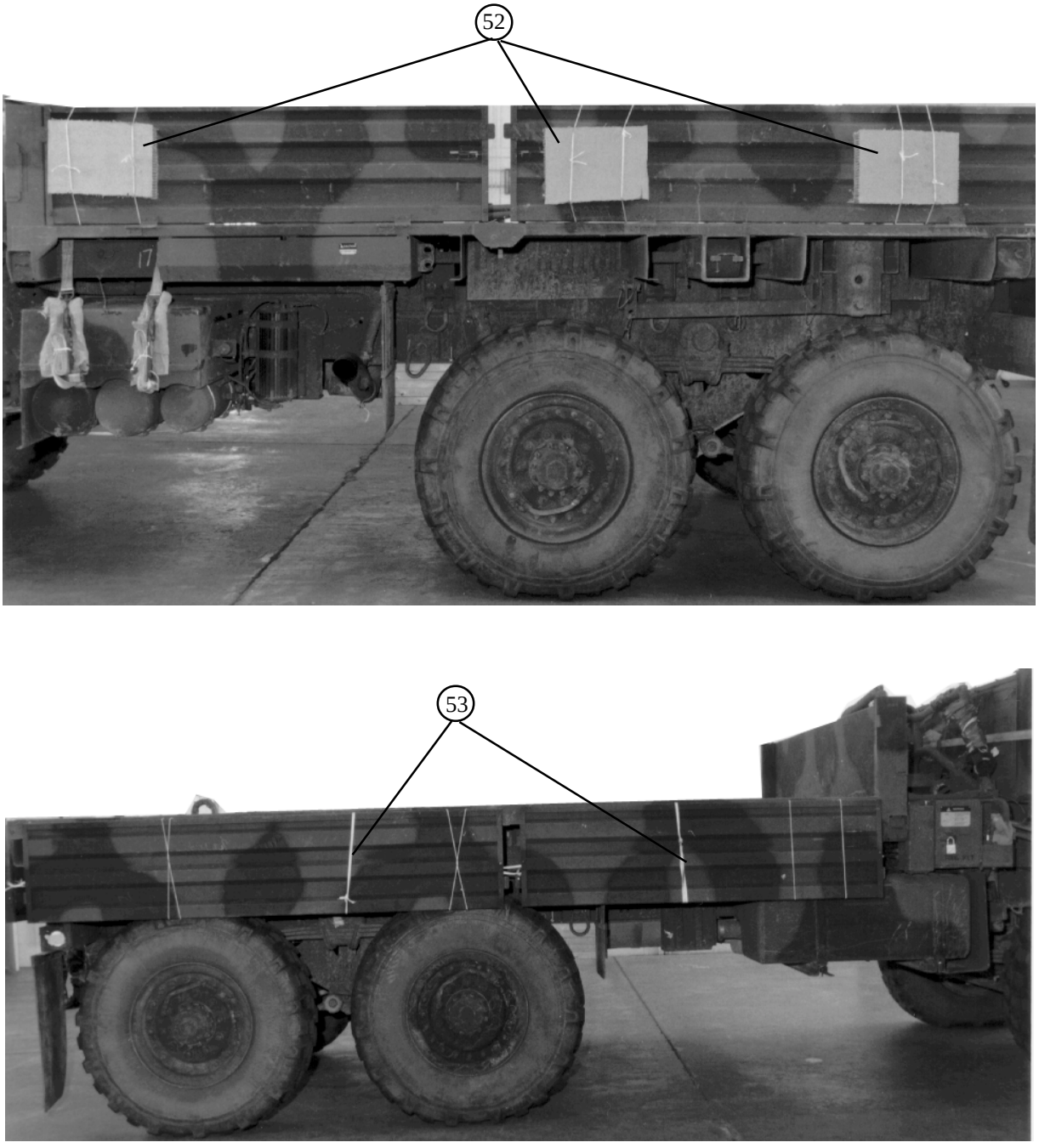




(50) Replace the cover. Route two 15-foot lashings around the main frame, under the battery box, between the air tanks. Ensure hoses are not crimped.

(51) Secure with D-ring and loadbinder on top of battery box. Pad with felt or cellulose wadding.

Figure 3-12. Truck prepared (Continued)

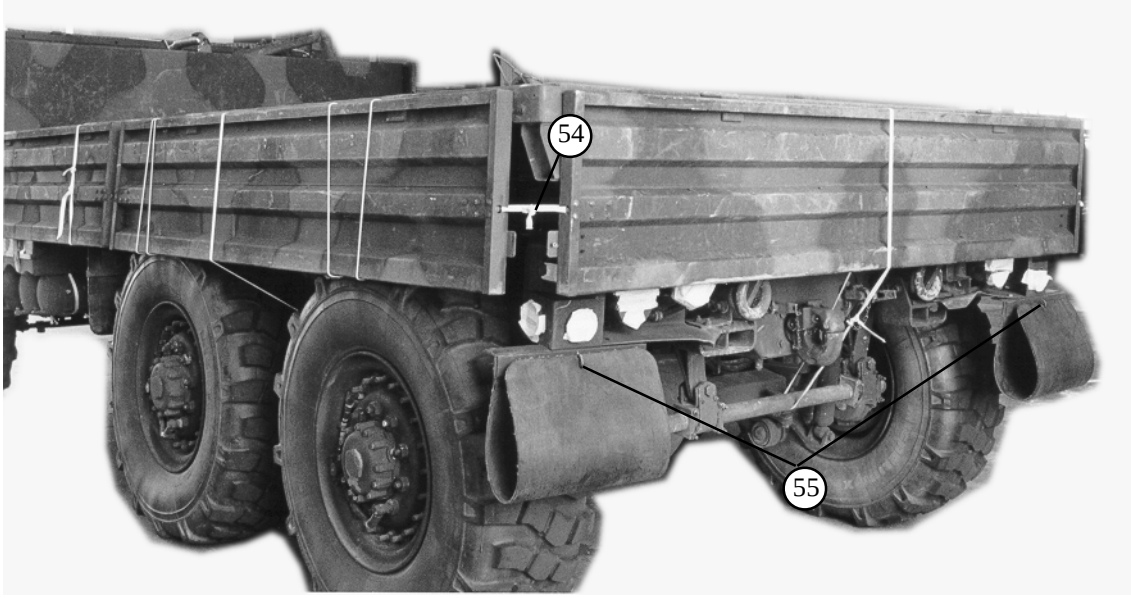


(52) Raise the side panels and place an 11- by 16-inch piece of honeycomb on each contact point. Position the pieces on the front panels where they will come in contact with the fuel tank and battery box. Place the honeycomb on the rear panels where they will come in contact with both sets of tires. Secure the honeycomb in place with type III nylon cord.

(53) Secure the side panels and tailgate down using 1/2-inch tubular nylon webbing and tie to convenient locations on the truck.

Note: Steps 52 and 53 must be secured very well. No slippage of the ties is allowed. If the ties are not secure, damage to the side panels will occur.

Figure 3-12. Truck Prepared (Continued)



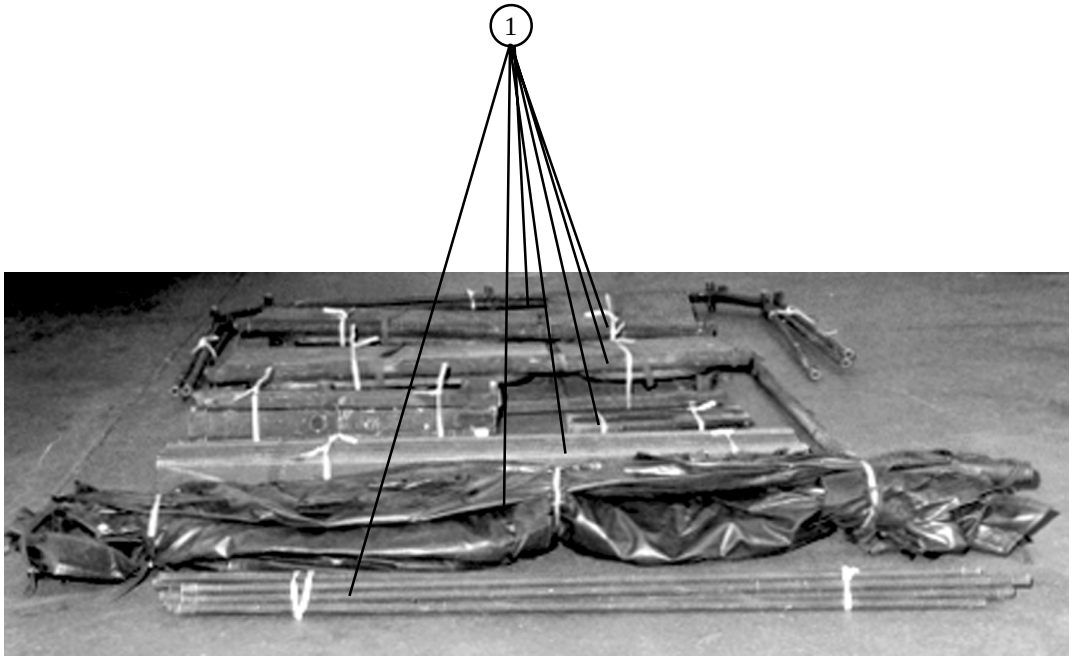
(54) Using 1/2-inch tubular nylon webbing, tie the corners of the rear side panels and tailgate together. Tie the front of the forward side to convenient locations on the truck.

(55) Tie the mud flaps up with type III nylon cord.

Figure 3-12. Truck Prepared (Continued)

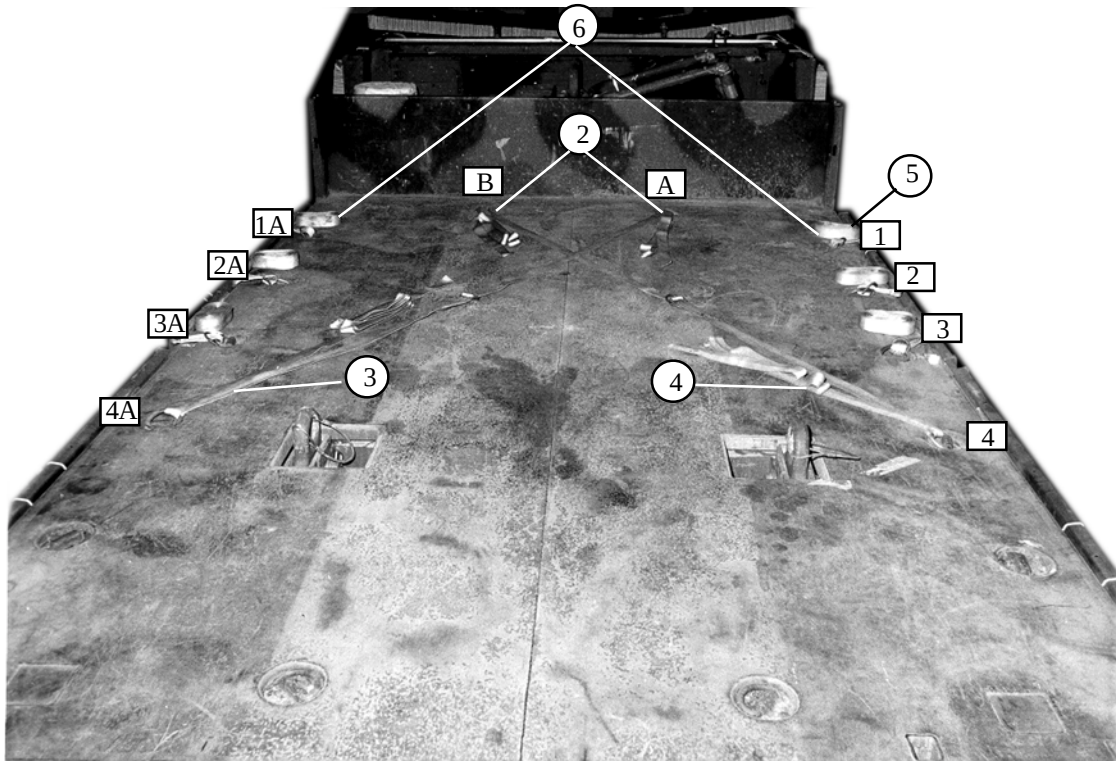
3-6. Stowing Basic Load

Basic accompanying load consists of the roof, spare tire, tire strap, davit, cargo/troop carrier cover, bows, cargo/troop carrier cover poles, bed stakes, seat bars, seats and side rails. Stow the vehicle parts as shown in *Figure 3-13.*



(1) Tie each like item together using 1/2-inch tubular nylon webbing, except the seats. They will be tied into two sets of two seats each.

Figure 3-13. Basic load stowed



(2) Starting at the front of the truck bed, label the right side truck bed tiedown rings 1 through 4 and the left side 1A through 4A. Label the front center truck rings as A and B.

(3) Route a 30-foot lashing from bed ring A to 4A .

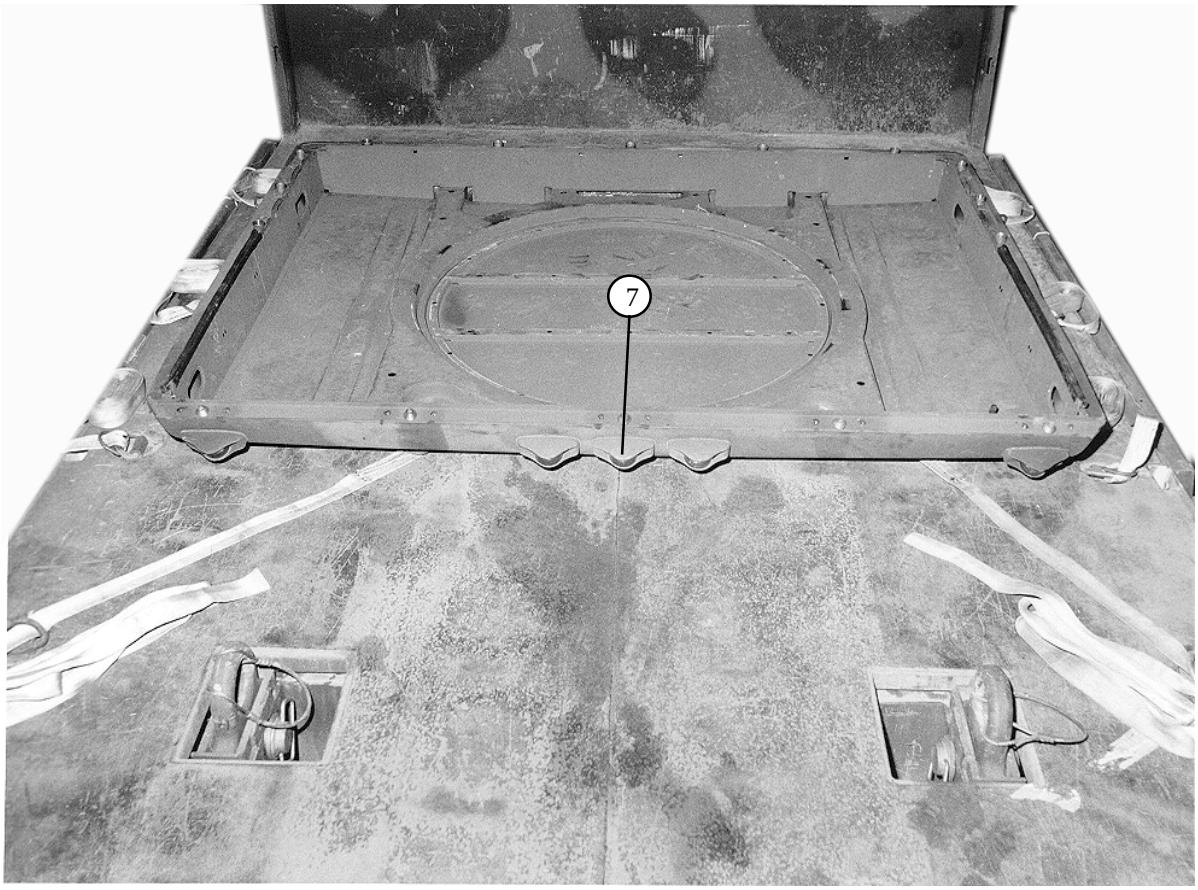
(4) Route a 30-foot lashing from bed ring B to 4 .

(5) Route a 15-foot lashing through the truck bed tiedown ring 1, and through it's own D-ring. Lay it to the vehicle's side or roll it up and lay it to the side.

(6) Repeat for truck bed tiedown rings 2, 3, 1A, 2A and 3A.

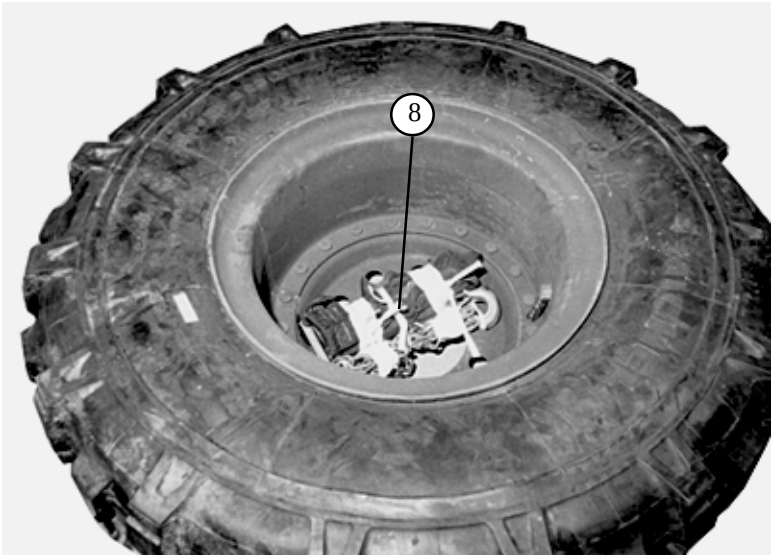
Figure 3-13. Basic load stowed (Continued)

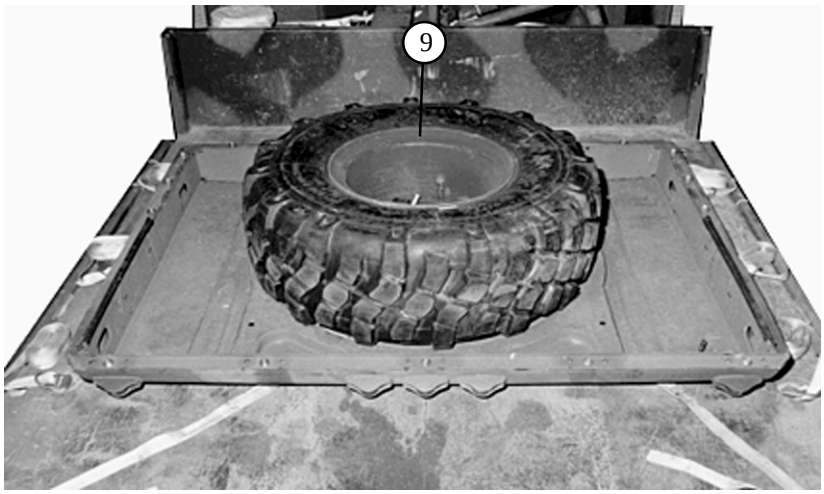
NOTE: Before positioning roof, make sure that all tiedown rings are laying to the outside of the truck bed.



(7) Position the roof upside down and centered between truck bed tiedown rings 1, 2, 3, 1A, 2A, and 3A, with the lights facing the rear of the vehicle.

Figure 3-13. Basic load stowed (Continued)

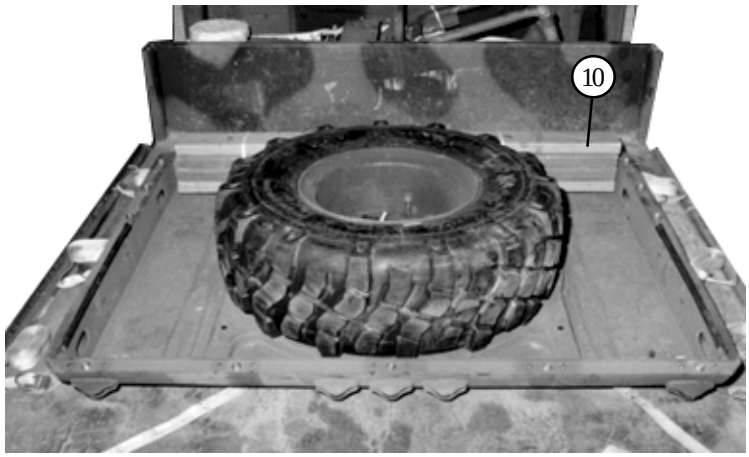


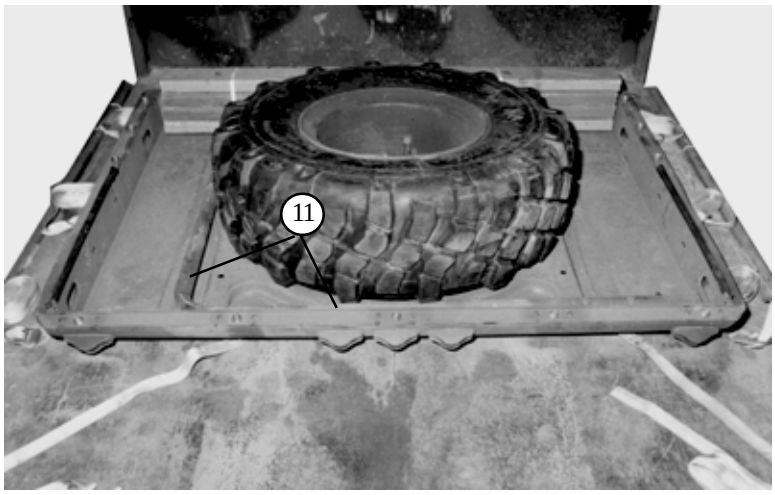


(8) Roll and tape the tire strap. Secure it in the spare tire using 1/2-inch tubular nylon webbing.

(9) Position the spare tire in the center of the roof.

Figure 3-13. Basic load stowed (Continued)

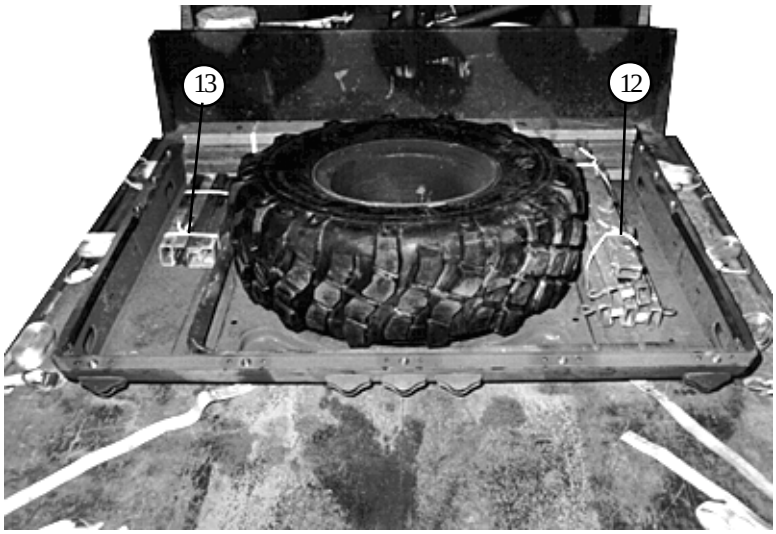




(10) Position the side rails inside the roof in front of the spare tire.

(11) Position the davit to the rear of the spare tire.

Figure 3-13. Basic load stowed (Continued)

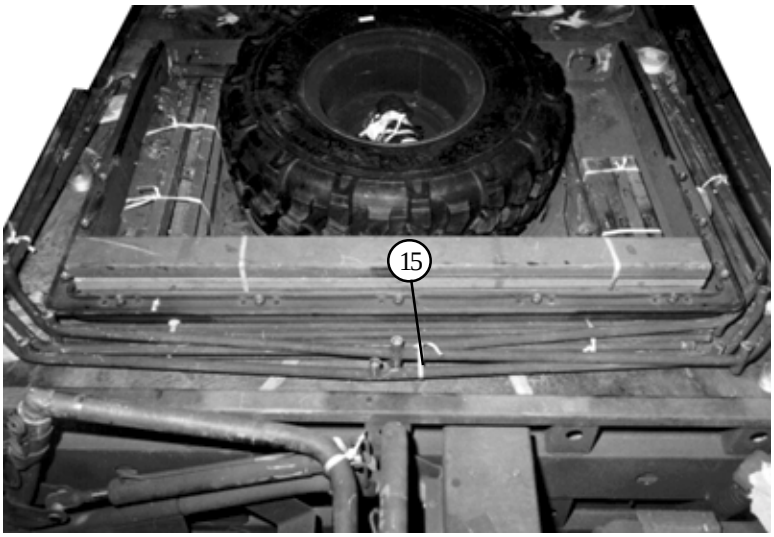


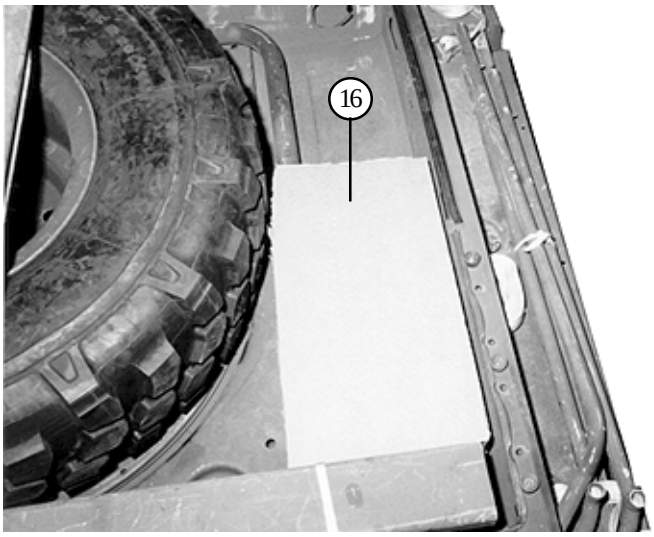
(12) Place the seat bars inside the roof and to the right of the spare tire.

(13) Place the bed stakes inside the roof and to the left of the spare tire.

(14) Place the cargo/troop carrier cover poles in the pole holder in the front of the truck bed. (Not shown)

Figure 3-13. Basic load stowed (Continued)

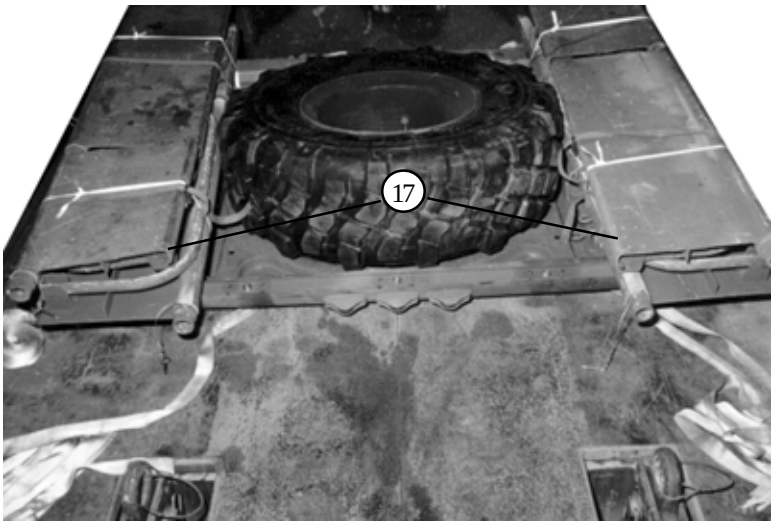


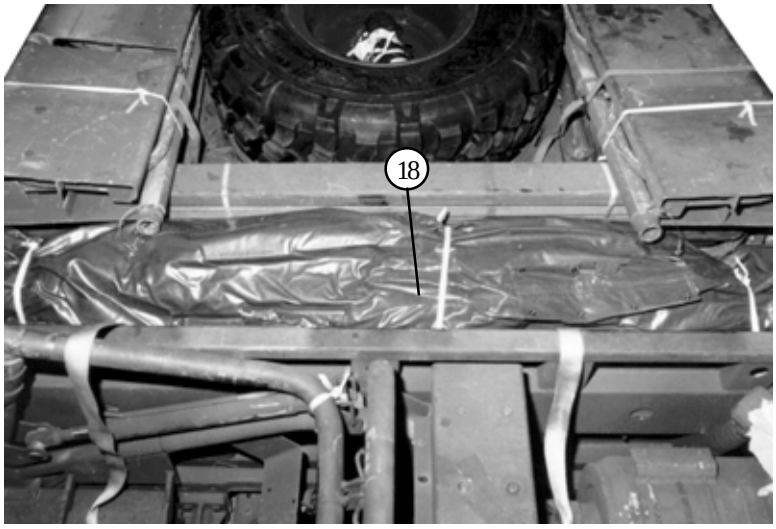


(15) Position the bows in front and around the roof.

(16) Position two pieces of honeycomb on the bed stakes to create a level surface.

Figure 2-13. Basic load stowed (Continued)

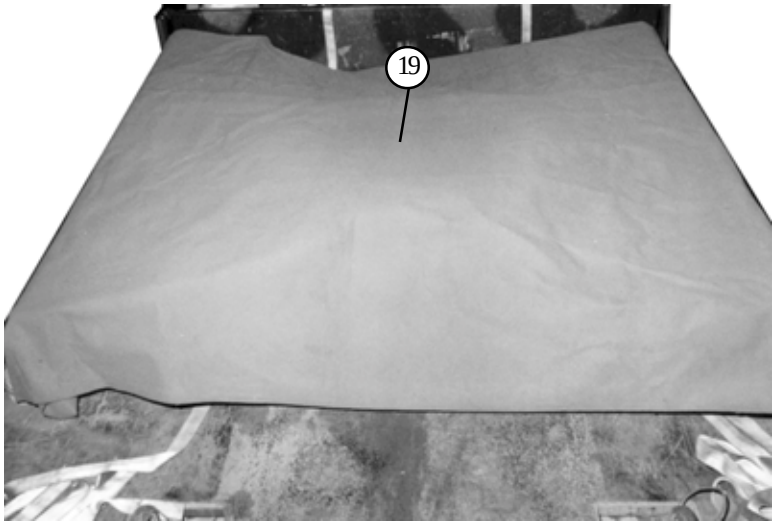


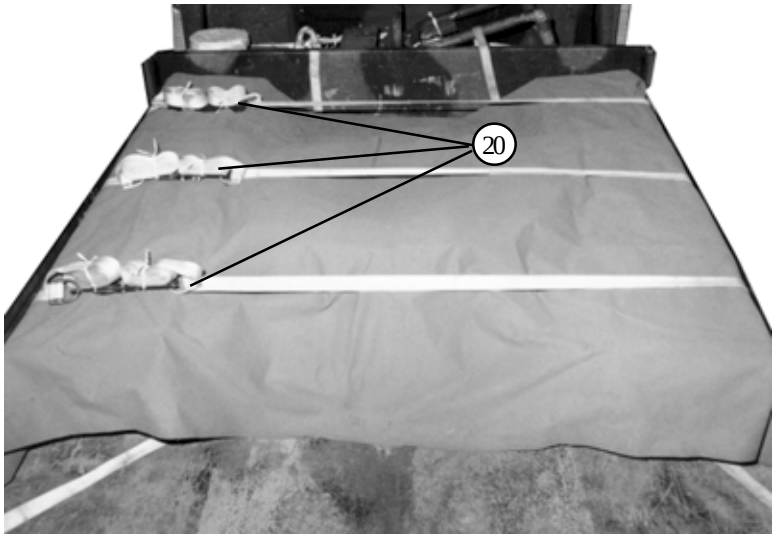


(17) Position one set of the seats to the left side and one set to the right side of the spare tire.

(18) Position the cargo/troop carrier cover to the front outside of the roof.

Figure 3-13. Basic load stowed (Continued)

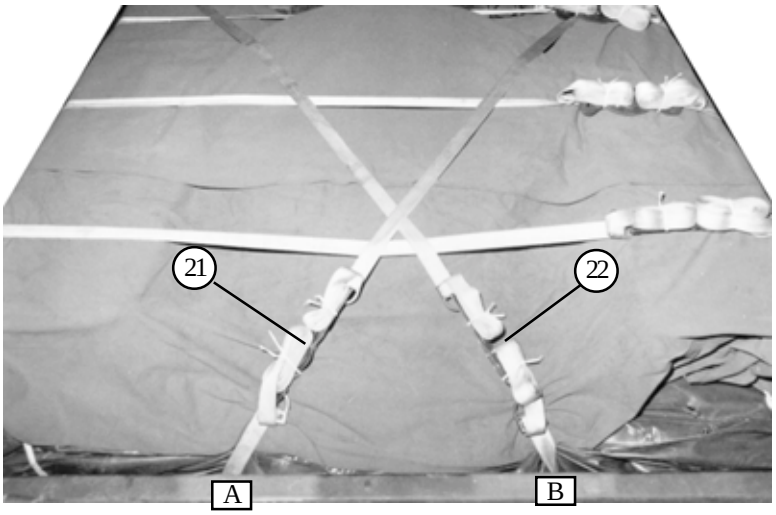




(19) Position the canvas over the basic load.

(20) Secure the lashings on top of the seats on the left side, lashing 1 to 1A, 2 to 2A, and 3 to 3A over the basic load. (Ensure the bows are outside the lashings to prevent bending.)

Figure 3-13. Basic load stowed (Continued)



(21) Secure the 30-foot lashing routed from truck bed center tiedown rings A to 4A.

(22) Secure the 30-foot lashing routed from truck bed center tiedown rings B to 4.

(23) Secure the bows to 2 and 2A with 1/2-inch tubular nylon webbing. (Not shown).

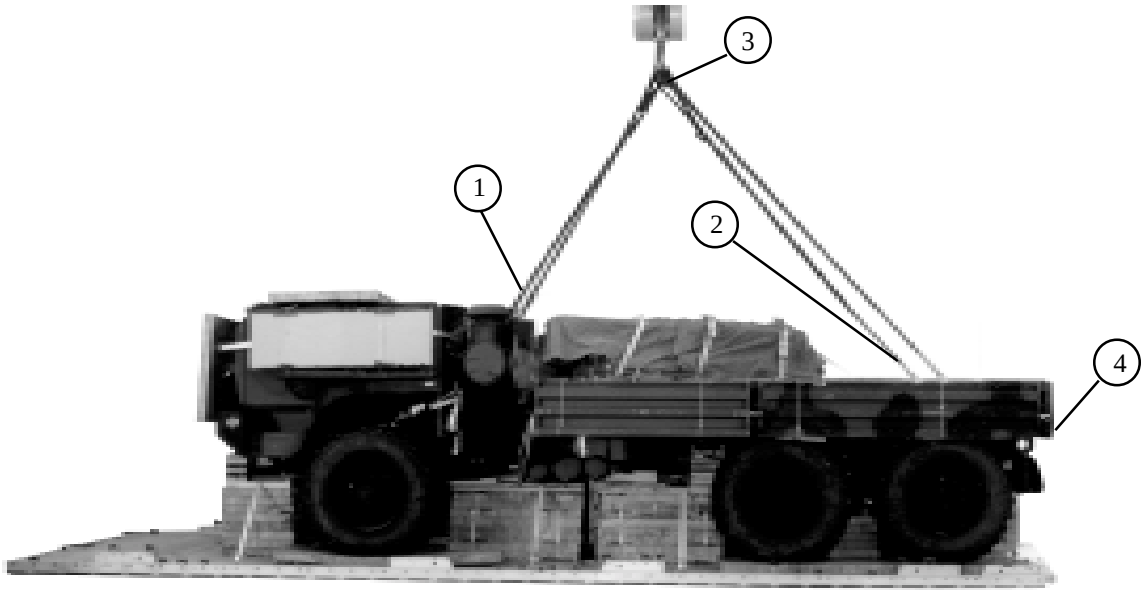
Figure 3-13. Basic load stowed (Continued)

3-7. Lifting and Positioning Truck

Install lifting slings on the M1093 truck and position the truck as shown in *Figure 3-15* and as described below.

a. Construct a lifting kit using a large clevis and a doubled 16-foot (2-loop), type XXVI sling attached to the front lifting points with clevis screw pin on each side. Attach a 12-foot (4-loop), type XXVI sling to each rear lifting points with a large clevis.

b. Position the M1093 truck so that the rear of the truck is flush with the front of the platform. All references to front and rear will be according to the platform front and rear once the vehicle is placed on the platform.

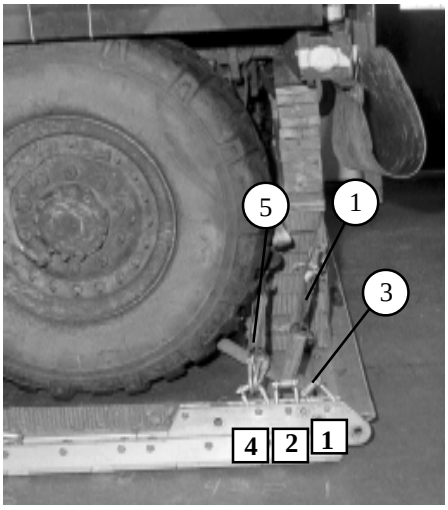


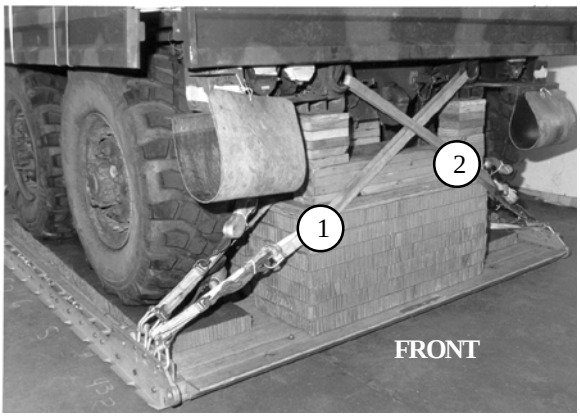
1. Attach a doubled 16-foot (2-loop), type XXVI sling to each front lifting point with a clevis screw pin.
2. Attach a 12-foot (4-loop), type XXVI sling to each rear lifting point with a large clevis.
3. Attach the doubled 16-foot (2-loop), type XXVI sling and the 12-foot (4-loop) type XXVI sling to a large clevis.
4. Position the truck so that the rear of the truck is flush with the front of the platform.

Figure 3-14. Truck positioned on the platform

3-8. Installing Lashings

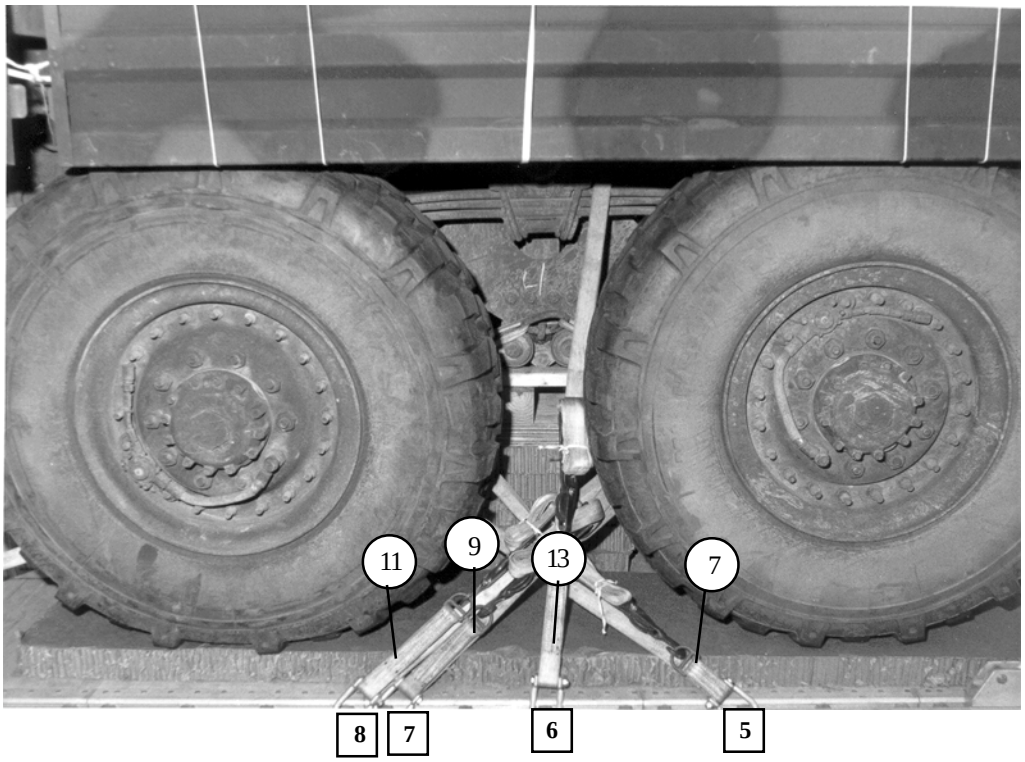
Install lashings according to FM 10-500-2/TO 13C7-1-5 and as shown in *Figure 3-15.*





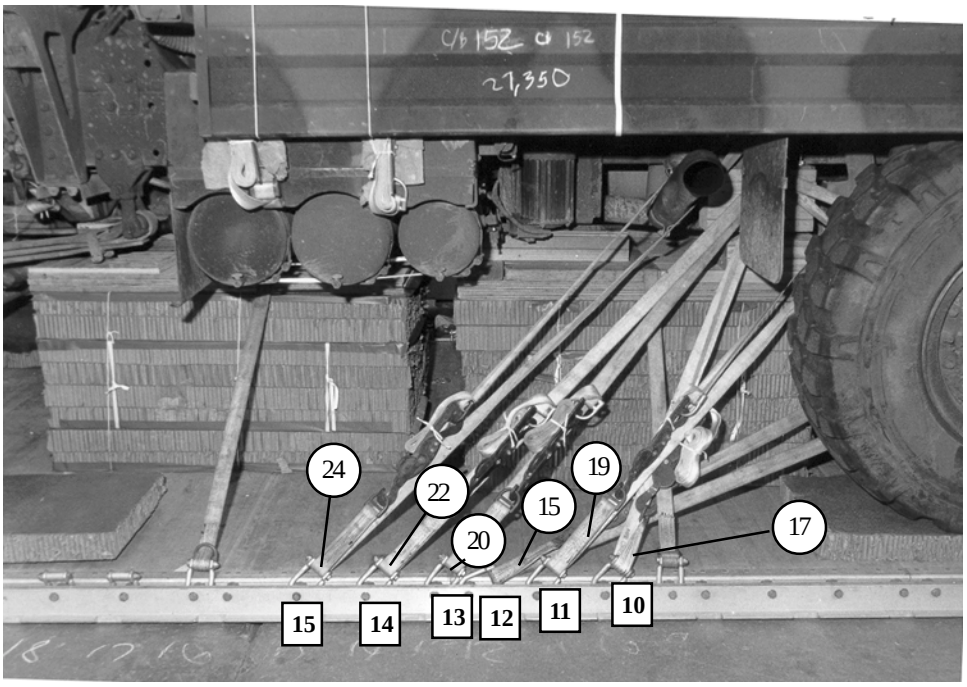
Lashing Number	Tiedown Clevis Number	Instructions
		Pass lashing:
1	**2**	**To left side rear tiedown point.**
2	**2A**	**To right side rear tiedown point.**
3	**1**	**Behind the rear wheel, under the axle to tiedown point #4 on the left side.**
4	**1A**	**Behind the rear wheel, under the axle to tiedown point #4 on the right side.**
5	**4**	**To the stabilizer right side.**
6	**4A**	**To the stabilizer left side.**

Figure 3-15. Truck positioned and lashed to the platform



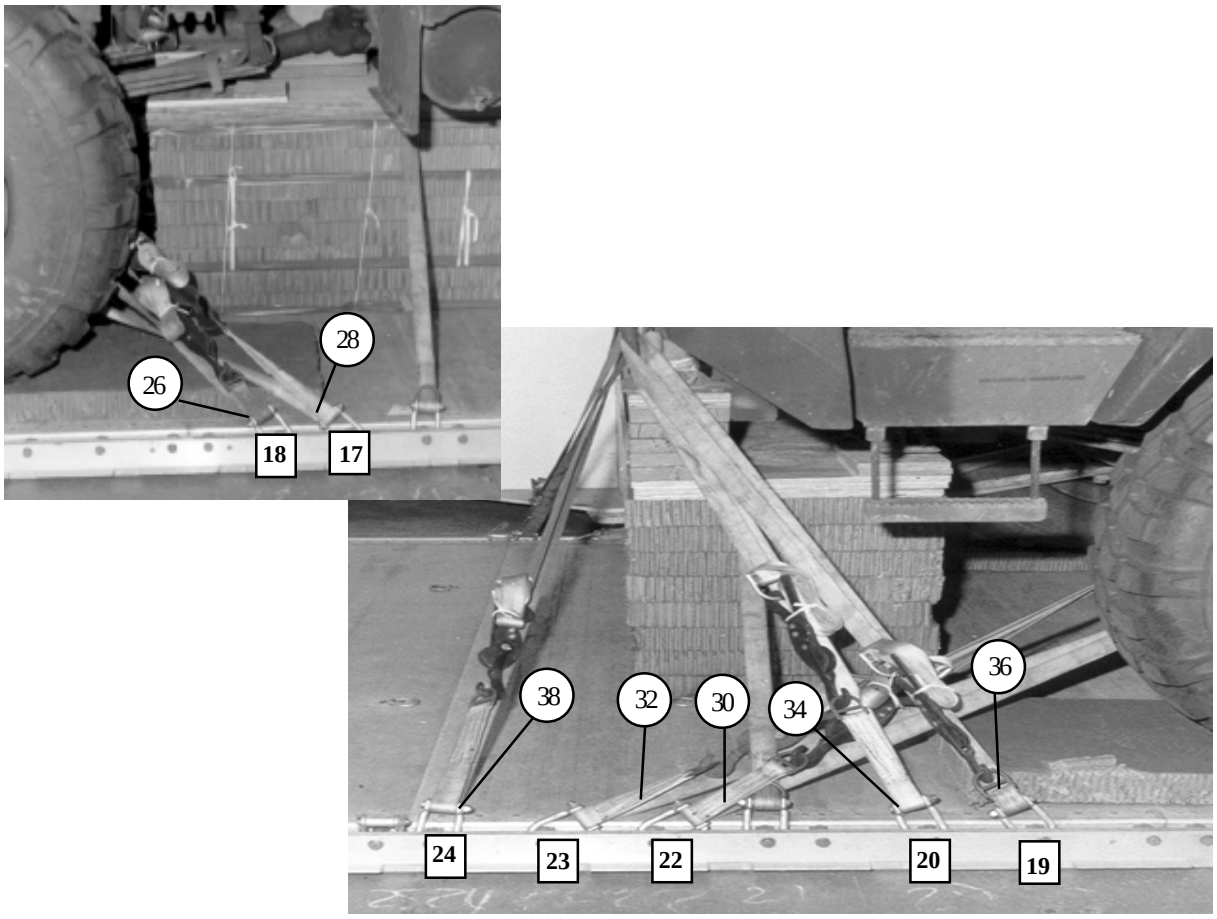
Lashing Number	Tiedown Clevis Number	Instructions
		Pass lashing:
7	**5**	**Behind the center wheel, under the axle and to tiedown point #1 on the left side.**
8	**5A**	**Behind the center wheel, under the axle and to tiedown point #1 on the right side.**
9	**7**	**Around right rear axle.**
10	**7A**	**Around left rear axle.**
11	**8**	**Around right rear axle.**
12	**8A**	**Around left rear axle.**
13	**6**	**Around leaf sping on right side.**
14	**6A**	**Around leaf spring on left side.**

Figure 3-15. Truck positioned and lashed to the platform (Continued)



Lashing Number	Tiedown Clevis Number	Instructions
		Pass lashing:
15	**12**	**Through tiedown point #4 on right side, underneath the axle.**
16	**12A**	**Through tiedown point #4 on left side, underneath the axle.**
17	**10**	**Through tiedown point #1 on right side.**
18	**10A**	**Through tiedown point #1 on left side.**
19	**11**	**Through tiedown point #3 on right side.**
21	**11A**	**Through tiedown point #3 on left side.**
20	**13**	**Through tiedown point #1 on right side.**
21	**13A**	**Through tiedown point #1 on left side.**
22	**14**	**Through tiedown point #1on right side.**
23	**14A**	**Through tiedown point #1 on left side.**
24	**15**	**Through tiedown point #2 on right side, splitting exhaust pipe.**
25	**15A**	**Through tiedown point #2 on left side.**

Figure 3-15. Truck positioned and lashed to the platform (Continued)

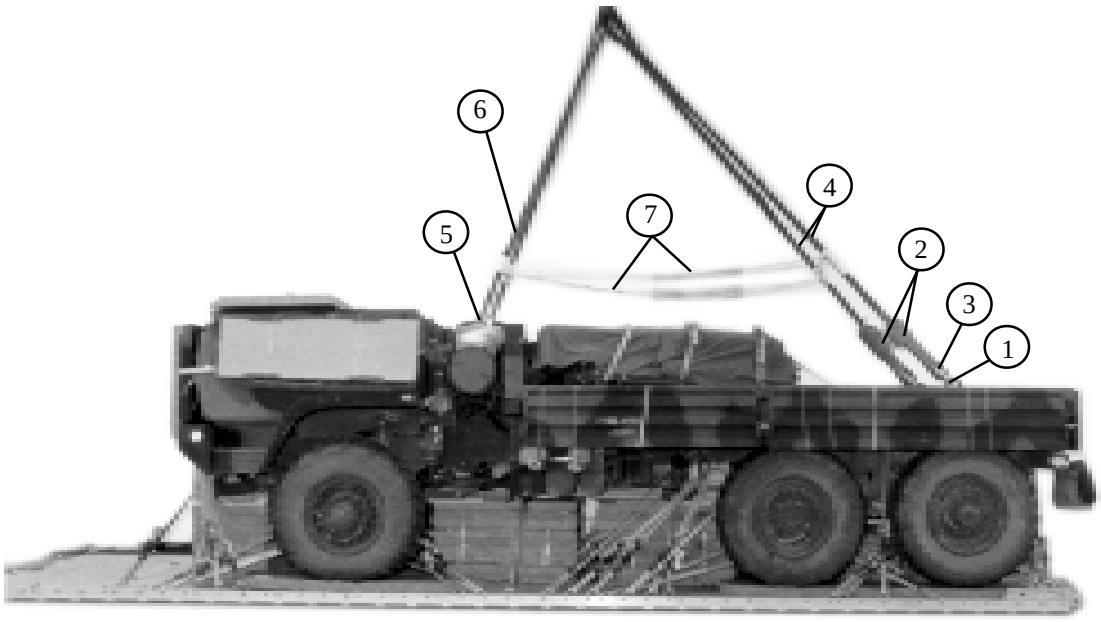


Lashing Number	Tiedown Clevis Number	Instructions
		Pass lashing:
26	**18**	**Around front axle right side.**
27	**18A**	**Around front axle left side.**
28	**17**	**Around front axle right side.**
29	**17A**	**Around front axle left side.**
30	**22**	**To front axle right side.**
31	**22A**	**To front axle left side.**
32	**23**	**To front axle right side.**
33	**23A**	**To front axle left side.**
34	**20**	**To front shackle left side (DO NOT TIGHTEN).**
35	**20A**	**To front shackle right side (DO NOT TIGHTEN).**
36	**19**	**To front shackle left side (TIGHTEN LASHING 34, THEN LASHING 36).**
37	**19A**	**To front shackle right side (TIGHTEN LASHING 35, THEN LASHING 37).**
38	**24**	**To front shackle left side.**
39	**24A**	**To front shackle right side.**

Figure 3-15. Truck positioned and lashed to the platform (Continued)

3-9. Installing and Safetying Suspension Slings

Install and safety the slings according to FM 10-500-2/TO 13C7-1-5 and as shown in *Figure 3-16.*

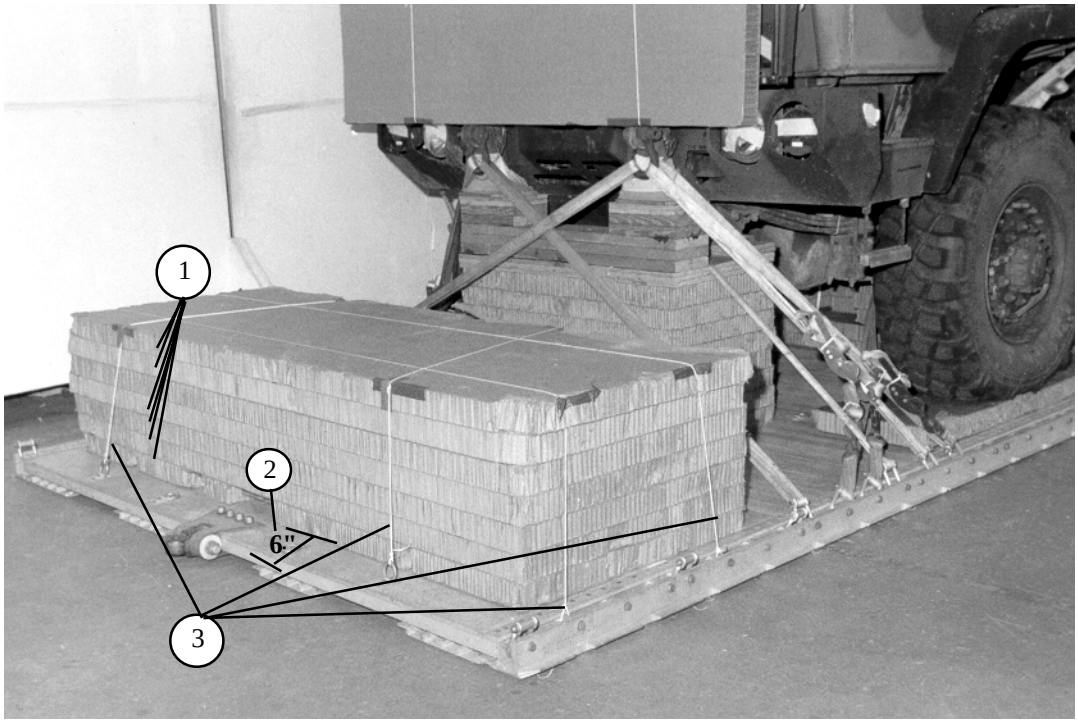


1. Attach a clevis screw pin to the front lifting point on each side.
2. Route a 3-foot (4-loop), type XXVI nylon sling through each clevis screw pin clevis.
3. Route both running ends of the 3-foot slings through large clevises.
4. Attach 12-foot (4-loop), type XXVI nylon slings to each large clevis using bolts and spacers. Pull the clevises up as high as posible, and safety them in place with type III nylon cord to a convenient point on the load.
5. Bolt a clevis screw pin to each front lifting point.
6. Attach a 11-foot (4-loop), type XXVI nylon sling to each of the front clevis screw pin.
7. Raise the slings and install the deadman's tie according to FM 10-500-2/TO 13C7-1-5.

Figure 3-16. Suspension slings installed and safetied

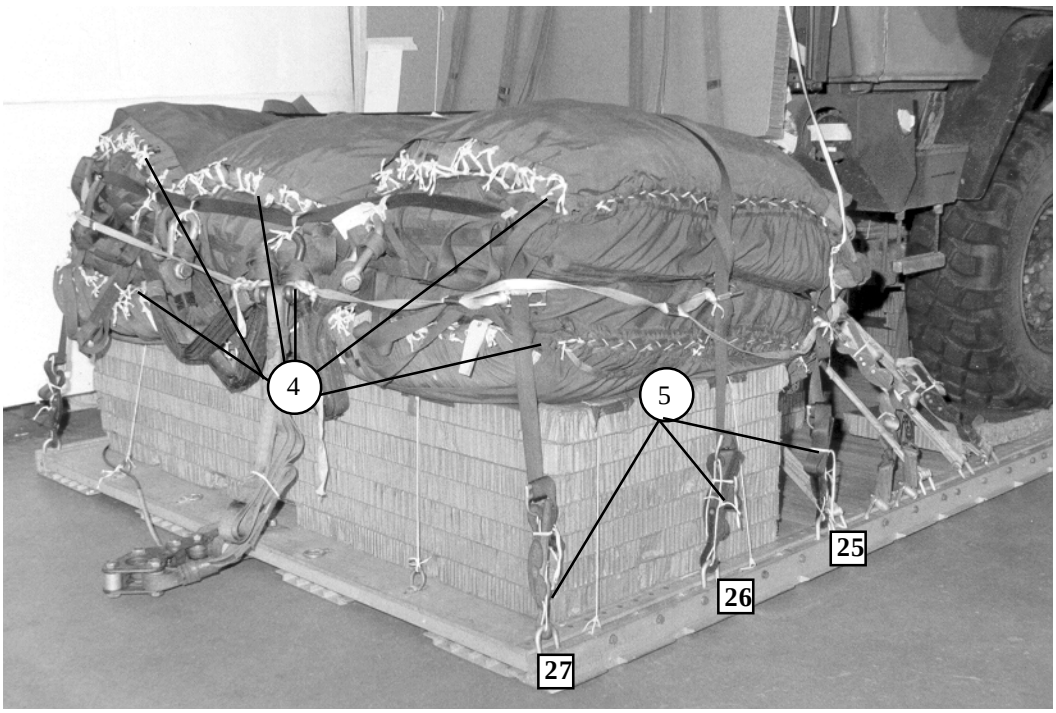
3-10. Stowing Cargo Parachutes

Stow six G-11 cargo parachutes as shown in *Figure 3-17*.



1. Glue seven 36- by 96-inch pieces of honeycomb together.
2. Center the honeycomb 6 inches from the rear edge of the platform and tape where need.
3. Secure the honeycomb stack in place with four lengths of type III nylon cord attached to the platform tiedown rings and side rail bushings.

Figure 3-17. Parachutes stowed and installed



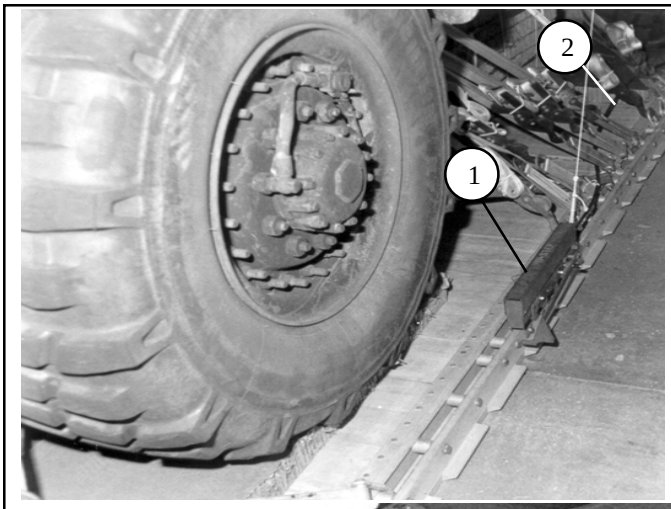
(4) Prepare, cluster and place six G-11 parachutes on the honeycomb according to FM 10-500-2/TO 13C7-1-5.

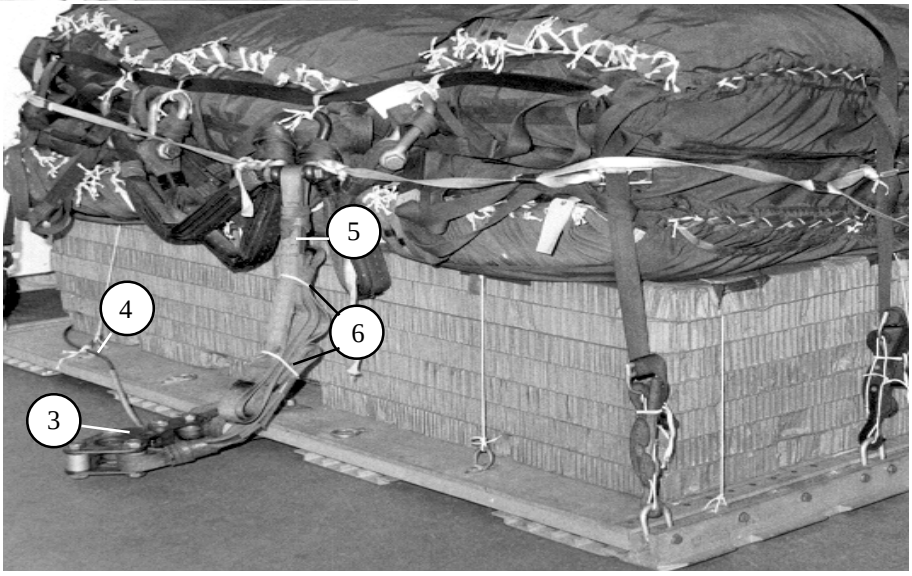
(5) Install parachute restraints according to FM 10-500-2/TO 13C7-1-5. Secure the restraints to clevises 25, 25A 26, 26A, 27 and 27A on the platform.

Figure 3-17. Parachutes stowed and installed (Continued)

3-11. Installing Extraction System

Install the components of the extraction force transfer coupling (EFTC) according to FM 10-500-2/TO 13C7-1-5 as shown in *Figure 3-18*.



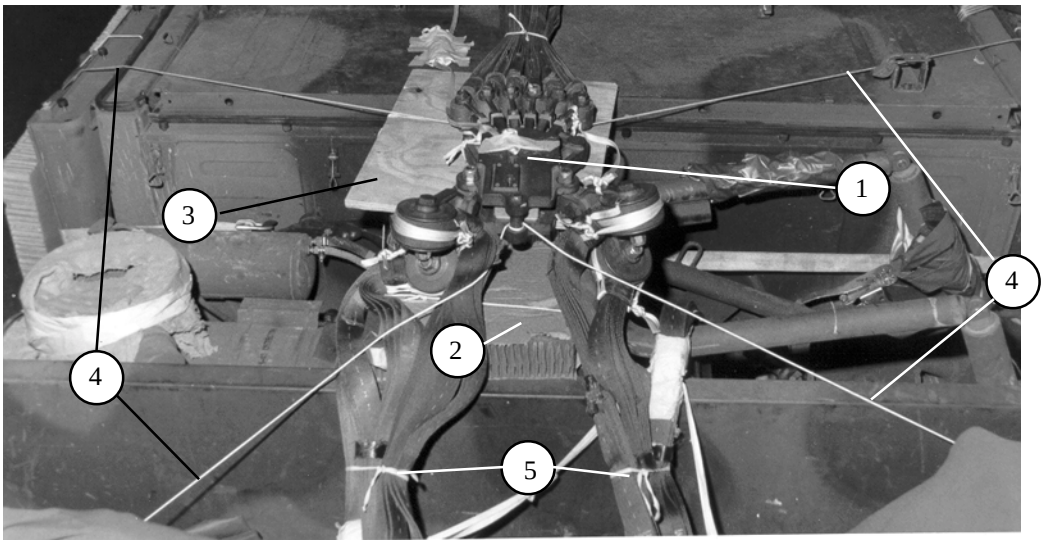


1. Install the EFTC mounting brackets in the rear mounting holes on the left platform rail.
2. Attach a 24-foot release cable to the actuator. Install the actuator to the EFTC mounting brackets.
3. Install the latch assembly to the extraction bracket. Attach the release cable to the latch assembly.
4. Safety the cable with type I, 1/4-inch cotton webbing to the platform bushings or deck rings.
5. Attach one end of a 9-foot (2-loop), type XXVI nylon sling, for use as a deployment line. Attach the other end to the extraction link.
6. S-fold the slack and secure the folds with type I, 1/4-inch cotton webbing according to FM 10-500-2/TO 13C7-1-5.

Figure 3-18. Extraction system installed

3-12. Installing Release System

Install an M-2 cargo parachute release according to FM 10-500-2/TO 13C7-1-5 and as shown in *Figure 3-19.*



1. Prepare an M-2 release according to FM 10-500-2/TO 13C7-1-5.
2. Place two 20- by 8-inch pieces of honeycomb on each side of the spare tire mount.
3. Place a 20- by 20-inch piece of 1/4-inch plywood on top of the honeycomb and place the M-2 release on top of the plywood.
4. Safety it to convenient places on the load according to FM 10-500-2/TO 13C7-1-5.
5. Fold and tie any slack in the suspension slings.

Figure 3-19. Parachute release installed

3-13. Installing Provisions for Emergency Restraints

Select and install provisions for emergency restraints according to the emergency restraint requirements table found in FM 10-500-2/TO 13C7-1-5.

3-14. Placing Extraction Parachute

Select the extraction parachute and extraction parachute line needed using the extraction parachute and extraction line requirements table found in FM 10-500-2/TO 13C7-1-5.

3-15. Marking the Rigged Load

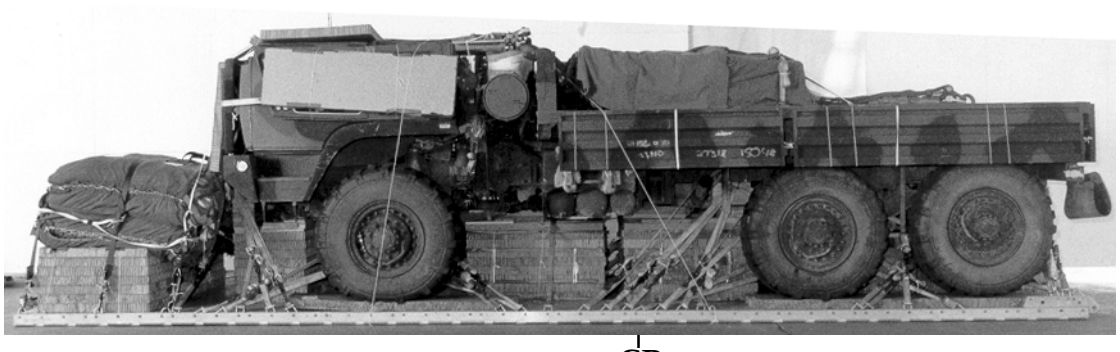
Mark the rigged load according to FM 10-500-2/TO 13C7-1-5 and as shown in *Figure 3-19*. If the load varies from the one shown, the weight, height, CB, tip-off curve and parachute requirements must be recomputed.

3-16. Equipment Required

Use the equipment listed in *Table 3-2* to rig this load.

CAUTION

Make the final rigger inspection required by FM 10-500-2/TO 13C7-1-5 before the load leaves the rigging site.



CB

RIGGED LOAD DATA

Weight: Load shown	**27, 318 pounds**
Minimum load allowed	**27, 000 pounds**
Maximum load allowed	**28, 000 pounds**
Height	**100 inches**
Width	**108 inches**
Length	**354 inches**
Overhang: Front	**0 inches**
Rear	**0 inches**
CB (from front edge of platform)	**150 inches**
Extraction System	**EFTC**

Figure 3-19. M1093, 5-Ton standard cargo truck rigged for low-velocity airdrop

Table 3-2. Equipment required for rigging the M1093, 5-ton cargo truck for low-velocity airdrop on a type V platform

National Stock Number	Item	Quantity
8040-00-273-8713	Adhesive, paste, 1-gal	As required
N/A	Bolt, (washers and nuts) 1/2- by 10-in	4
1670-01-035-6054	Bridle, extraction line bag (Use with extraction line bag)	1
4030-00-432-2516	Clevis, screw pin	4
4030-00-090-5354	Clevis, suspension, 1-in (large)	9
4020-00-240-2164	Cord, nylon, type III, 550-lb	As required
8305-00-242-3593	Cloth, cotton duck, 60-in	As required
1670-00-434-5787	Coupling, airdrop extraction force transfer cable, 24-ft	1
1670-00-360-0328	Cover, clevis, large	6
8135-00-664-6958	Cushioning material, packaging, (cellulose wadding)	As required
8305-00-958-3685	Felt, 1/2-in thick	As required
1670-01-183-2678	Leaf, extraction line	2
	Line, extraction line, type XXV Inylon webbing	
5510-00-220-6148	60-ft (1-loop), drogue	1
1670-01-062-6313	60-ft (6-loop), (C-130 aircraft)	1
1670-01-220-6248	120-ft (6-loop), (C-141 and C-5 aircrafts)	1
1670-01-468-9178	140-ft (6-loop), (C-17 aircraft)	1

Table 3-2. Equipment required for rigging the M1093, 5-ton cargo truck for low-velocity airdrop on type V platform (continued)

National Stock Number	Item	Quantity
	Link assembly:	
1670-00-006-2752	Four-point:	1
	Two-point:	1
5305-00-435-8994	Bolt, 1-in diam, 4-in long	(2)
5310-00-232-5165	Nut, 1-in	(2)
1670-00-003-1954	Plate, side, 5 1/2-in	(2)
5365-00-007-3414	Spacer, large	(2)
1670-00-783-5988	Type IV	1
1670-01-247-2389	Link, suspension tandem	2
	Load spreader for honeycomb stack 1:	
	Lumber:	
5510-00-220-6148	2- by 6- by 8-in	10
	2- by 6- by 10-in	4
	2- by 6- by 33-in	3
5510-00-220-6246	2- by 8- by 45-in	4
5530-00-129-7777	Plywood, 1/2-in:	
	5 1/2- by 8-in	4
	5 1/2- by 10-in	1

Table 3-2. Equipment required for rigging the M1093, 5-ton cargo truck for low-velocity airdrop on a type V platform (continued)

National Stock Number	Item	Quantity
5530-00-128-4981	Plywood, 3/4-in:	
	18- by 48-in	3
	Load spreader for honeycomb stack 2:	
5510-00-220-6246	Lumber, 2- by 8- by 20-in	3
5530-00-128-4981	Plywood, 3/4-in:	
	7 1/2- by 20-in	1
	20- by 43-in	3
	Load spreader for honeycomb stack 3:	
5510-00-220-6146	Lumber, 2- by 4- by 11-in	2
5510-00-220-6274	Lumber, 4- by 4- by 48-in	2
5510-00-128-4981	Plywood, 3/4-in:	
	6- by 11-in	2
	18- by 48-in	3
	Load spreader for honeycomb stack 4:	
	Lumber:	
5510-00-220-6148	2- by 6- by 21-in (without winch), **(with winch)**	2 **(3)**
	2- by 6- by 48-in	1
5510-00-220-6250	2- by 12- by 12-in	4
	2- by 12- by 38 1/2- in	2
5510-00-128-4981	Plywood 3/4-in:	
	5 1/2- by 21-in	2
	11 1/2- by 12-in	2
	44- by 48-in	3

Table 3-2. Equipment required for rigging the M1093, 5-ton cargo truck for low-velocity on type V airdrop platform (continued)

National Stock Number	Item	Quantity
	Load spreader for honeycomb stack 5:	
5510-00-220-6148	Lumber, 2- by 8- by 26 1/2-in	2
5530-00-128-4981	Plywood, 3/4-in:	
	7 1/2- by 8-in	1
	7 1/2- by 26 1/2-in	1
	6- by 8-in	1
	8- by 16-in	1
	10- by 10-in	1
	12- by 14-in	6
	46- by 48-in	3
	Load spreader for honeycomb stack 6:	
	Lumber:	
5510-00-220-6148	2- by 8- by 12-in	4
	2- by 8- by 43-in	3
5530-00-128-4981	Plywood, 3/4-in:	
	7- by 14-in	4
	7 1/2- by 12-in	4
	24- by 43-in	3
	Nail, steel wire, common:	
5315-00-010-4659	8d	As required
5315-00-753-3885	16d	As required
1670-00-753-3928	Pad, energy-dissipating, honeycomb,	
	3- by 36- by 96-in:	55 sheets
	8- by 20-in	(2)
	11- by 16-in	(7)
	12- by 36-in	(12)
	12- by 44-in	(2)
	12- by 46-in	(2)
	18- by 44-in	(12)
	18- by 46-in	(12)
	18- by 48-in	(12)
	18- by 60-in	(2)
	18- by 74-in	(2)
	18- by 96-in	(2)

Table 3-2. Equipment required for rigging the M1093, 5-ton cargo truck for low-velocity airdrop on a type V platform (continued)

National Stock Number	Item	Quantity
	20- by 43-in	(5)
	24- by 43-in	(8)
	36- by 44-in	(2)
	36- by 46-in	(2)
	36- by 80-in	(1)
	36- by 96-in	(8)
	Parachute, cargo:	
1670-01-016-7841	G-11C	6
	Parachute, cargo extraction:	
1670-00-040-8135	28-ft	2
1670-01-063-3715	15-ft	1
	Platform, AD, type V, 28-ft	1
1670-01-353-8425	Bracket assembly comp	(1)
1670-01-162-2372	Clevis, load tiedown	(52)
1670-01-353-8424	Extraction bracket assembly	(1)
1670-01-162-2381	Tandem link	(2)
1670-01-097-8817	Release, cargo parachute, M-2	1
	Sling, cargo, airdrop:	
	For deployment line:	
1670-01-062-6304	9-ft (2-loop), type XXVI nylon webbing	1
	For lifting:	
1670-01-062-6307	12-ft (4-loop), type XXVI nylon webbing	2
1670-01-063-7761	16-ft (2-loop), type XXVI nylon webbing	1
	For suspension:	
1670-01-062-6306	3-ft (4-loop), type XXVI nylon webbing	2
1670-01-062-6310	11-ft (4-loop), type XXVI nylon webbing	2
1670-01-062-6307	12-ft (4-loop), type XXVI nylon webbing	2

Table 3-2. Equipment required for rigging the M1093, 5-ton cargo truck for low-velocity airdrop on a type V platform (continued)

National Stock Number	Item	Quantity
	For riser extension:	
1670-01-062-6311	120-ft (2-loop), type XXVI nylon webbing	6
5340-00-040-8219	Strap, parachute release, multi-cut with 3 knives	2
	Truck preparation	
	Lumber:	
5510-00-220-6146	2- by 4- by 6	4
5510-00-220-6148	2- by 6- by 6	3
	2- by 6- by 13	10
5510-00-220-6274	4- by 4- by 6	2
	4- by 4- by 15	2
1670-00-753-3928	Pad, energy-dissipating, honeycomb, 3-by 36- by 96-in:	4 sheets
	4- by 6-in	(1)
	18- by 60-in	(2)
	36- by 80-in	(1)
	36- by 96-in	(1)
5530-00-128-4981	Plywood, 3/4-in:	
	10- by 10-in	1
7510-00-266-5016	Tape, adhesive, 2-in (masking)	As required
7510-00-074-5124	Tape, pressure sensitive, 2-in (cloth, back)	As required
1670-00-937-0271	Tiedown assembly, 15-ft	80
	Webbing:	
8305-00-268-2411	Cotton, 80-lb	As required
8305-00-082-5752	Nylon, tubular, 1/2-in, 1,000-lb natural	As required
8305-00-263-3591	Type VIII	As required

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GLOSSARY

AD	airdrop
AFB	Air Force base
AFR	Air Force regulation
AFTO	Air Force technical order
ATTN	attention
CB	center of balance
d	penny
DA	Department of the Army
DC	District of Columbia
DD	Department of Defense
diam	diameter
EFTA	extraction force transfer actuator
EFTC	extraction force transfer coupling
FM	field manual
FMTV	family of medium tactical vehicles
ft	feet/foot
gal	gallon
HQ	headquarters
in	inch
lb	pound

GLOSSARY

NSN	national stack number
Qty	quantity
TM	technical manual
TO	technical order
TRADOC	United States Army Training and Doctrine Command
US	United States
USAR	United States Army Reserve
VA	Virginia
yd	yard

By Order of the Secretaries of the Army and the Air Force:

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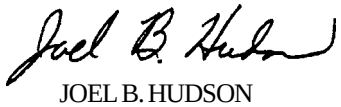

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